

1/55

FIG. 1

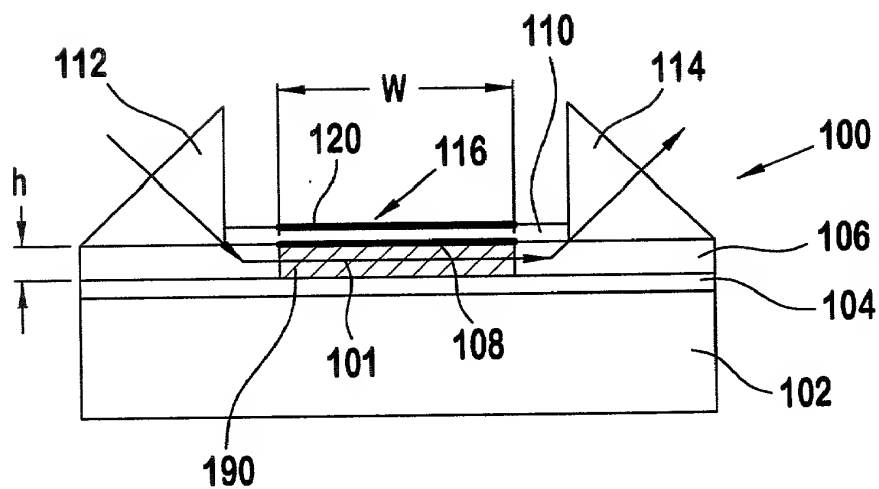


FIG. 2

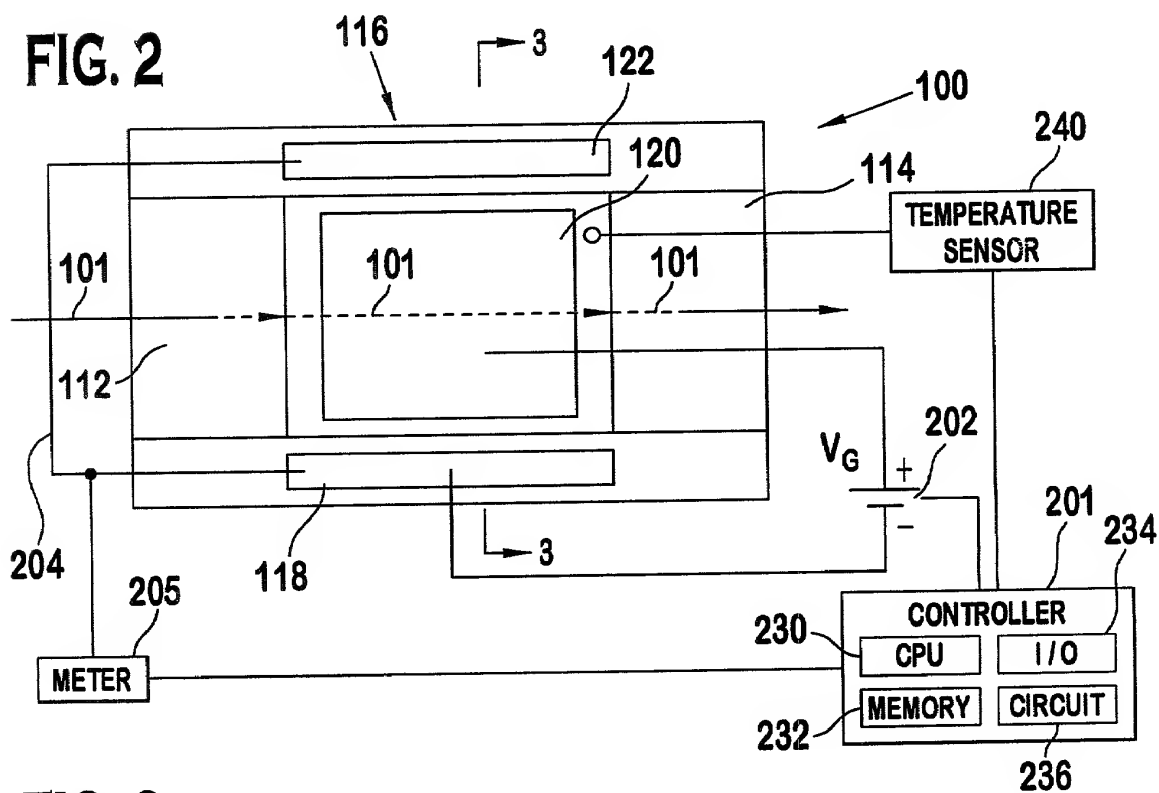


FIG. 3

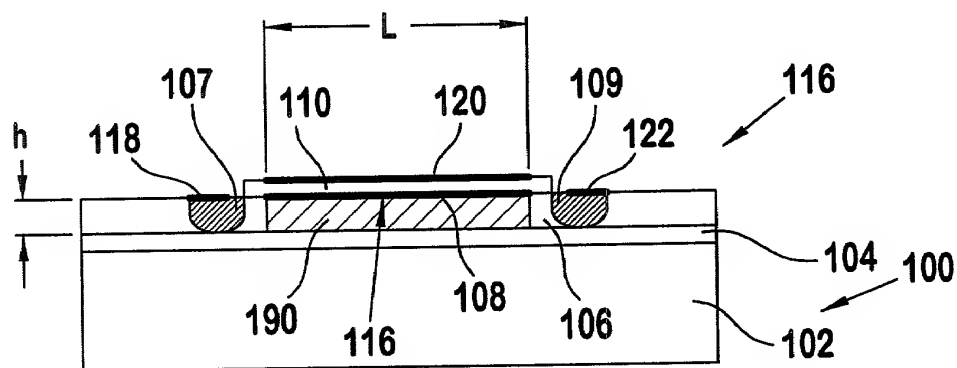


FIG. 4

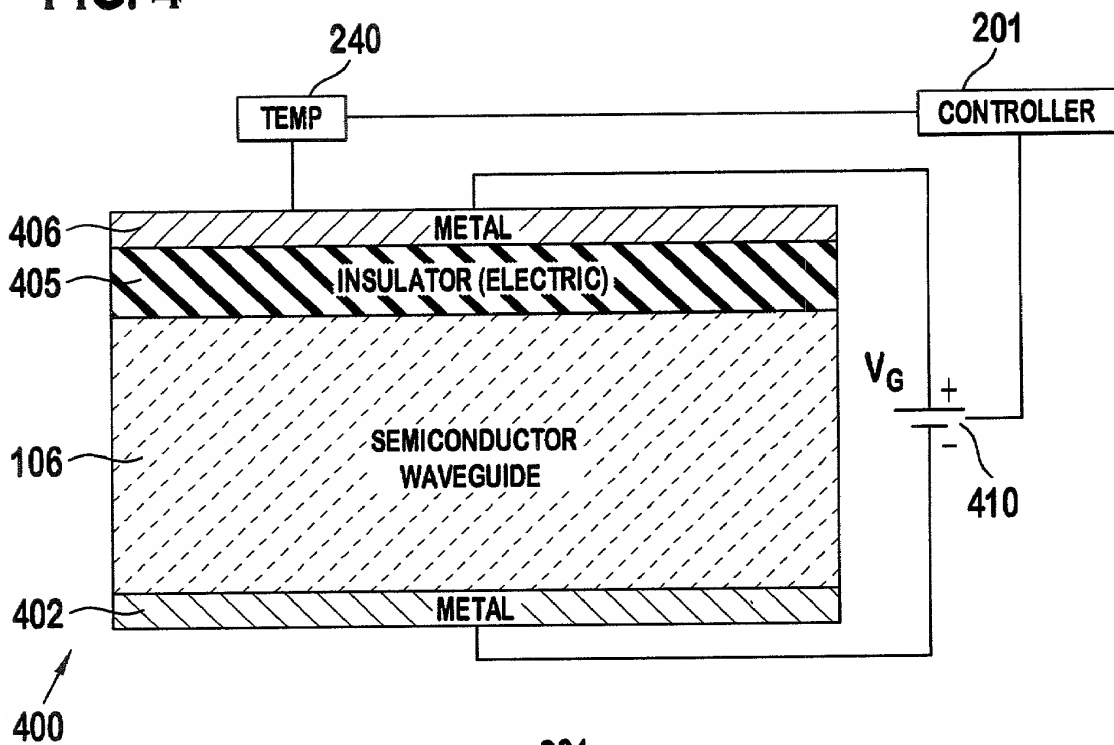
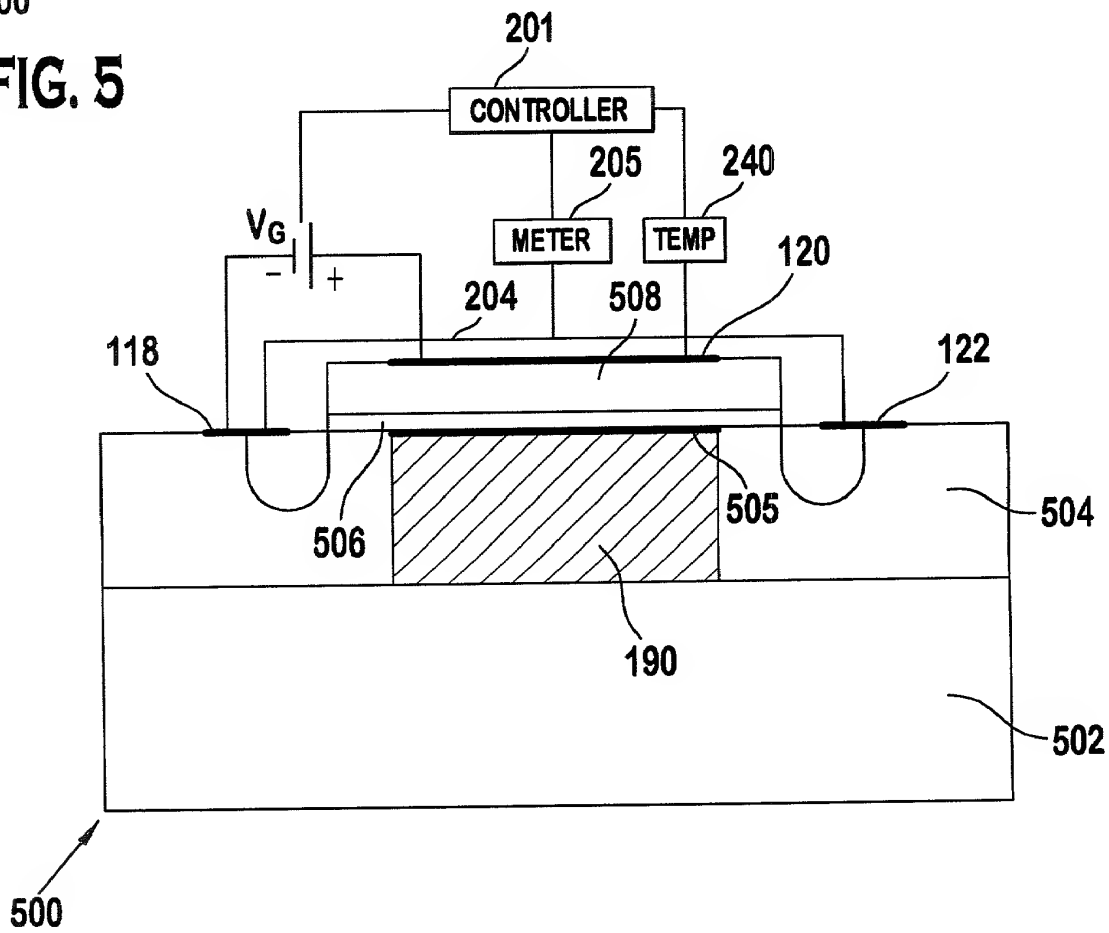
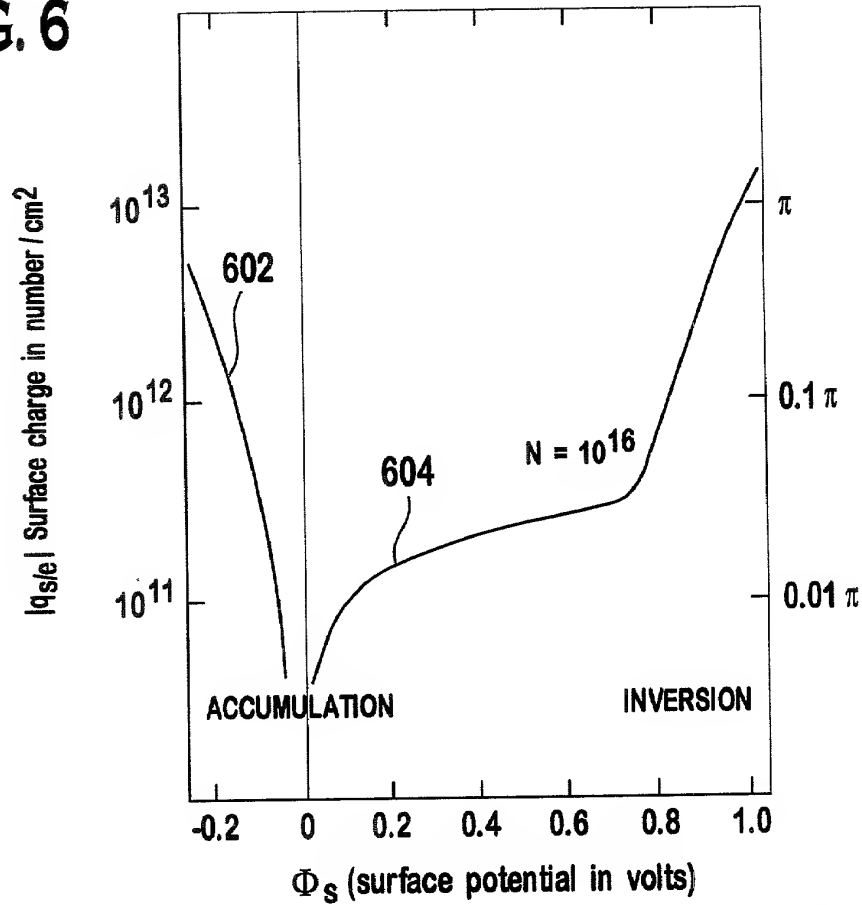


FIG. 5



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FIG. 6



Phase shift for 3 mm long device with 0.2 μ m waveguide

FIG. 7

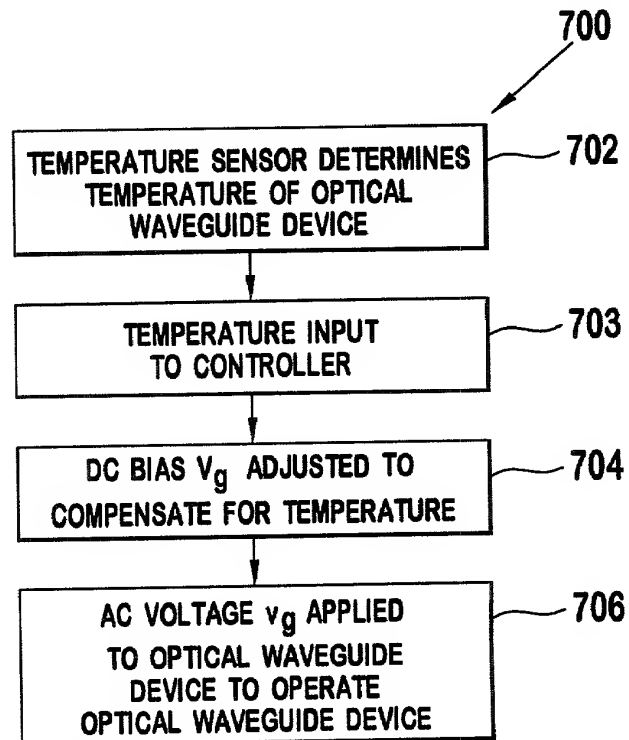


FIG. 8

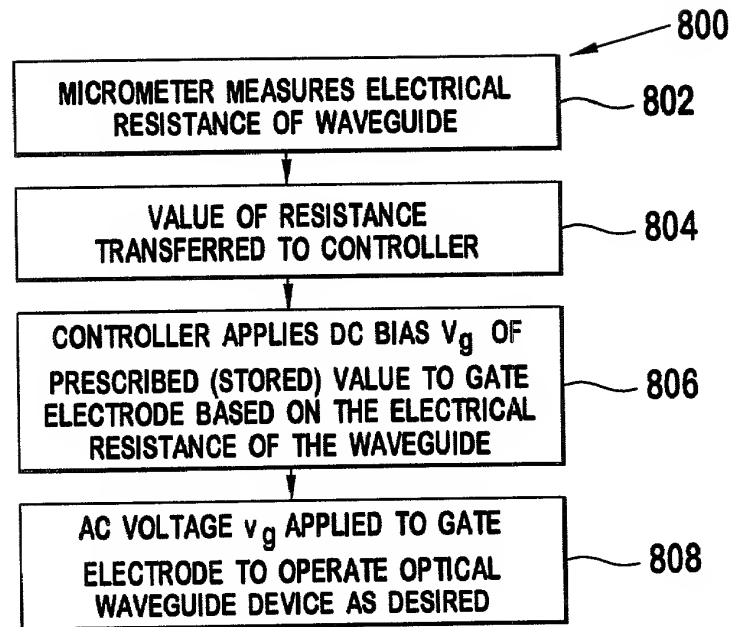


FIG. 9

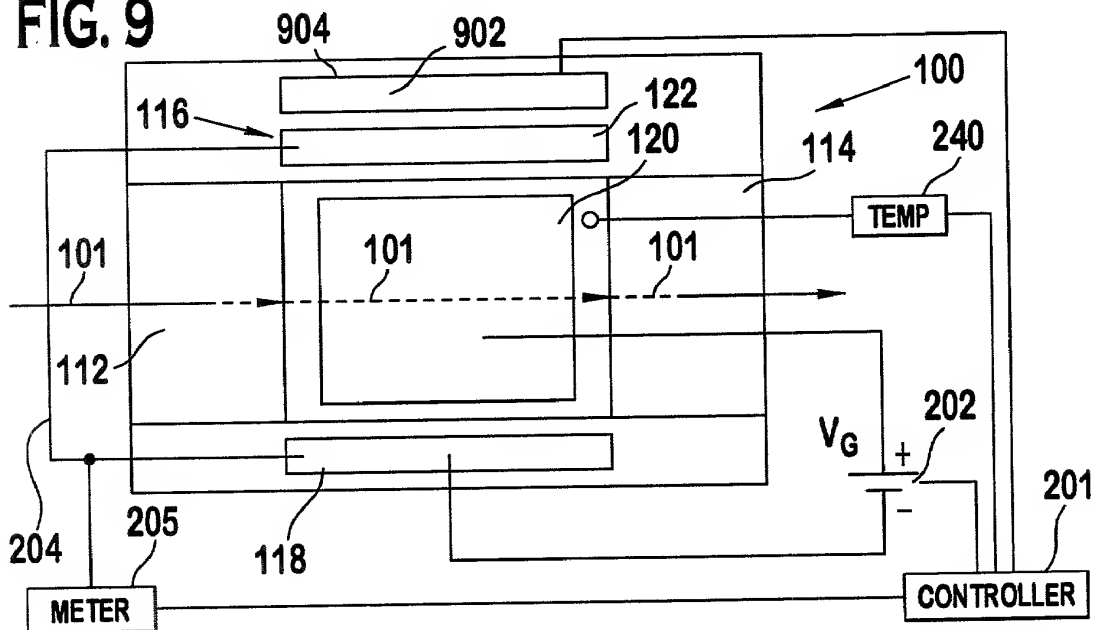


FIG. 10

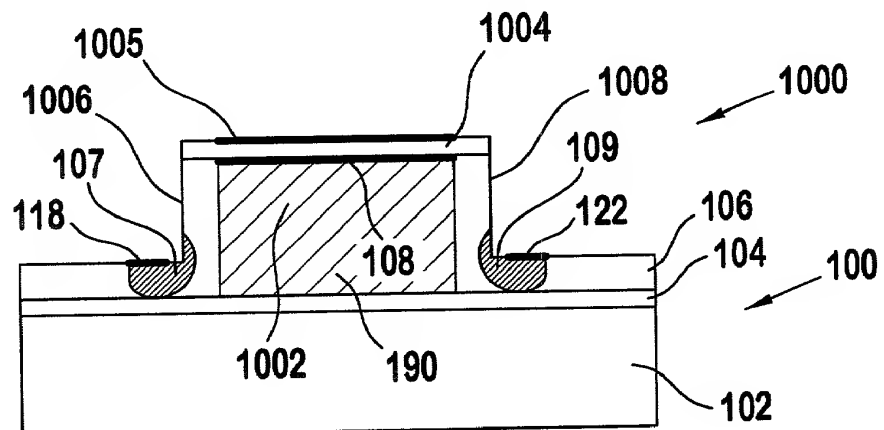


FIG. 11

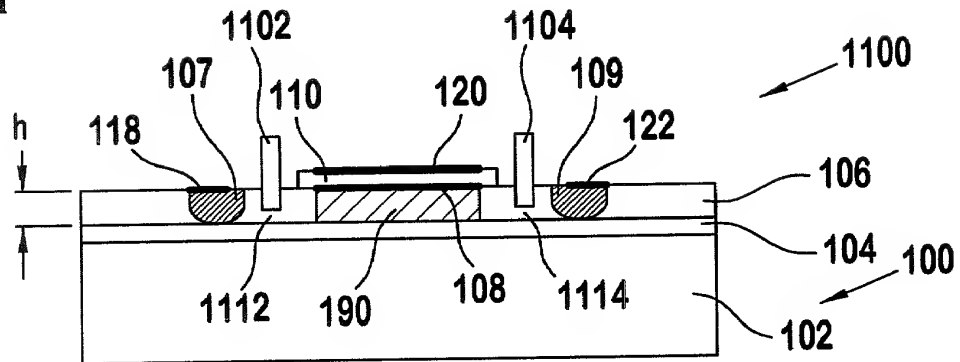


FIG. 12

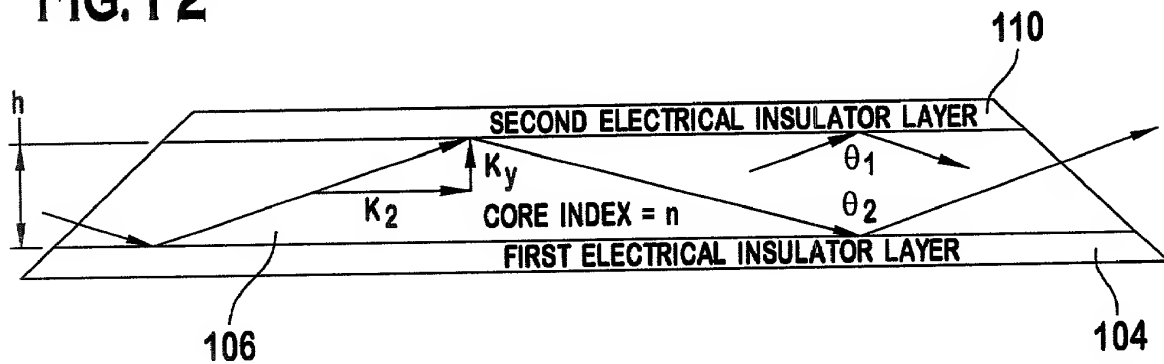
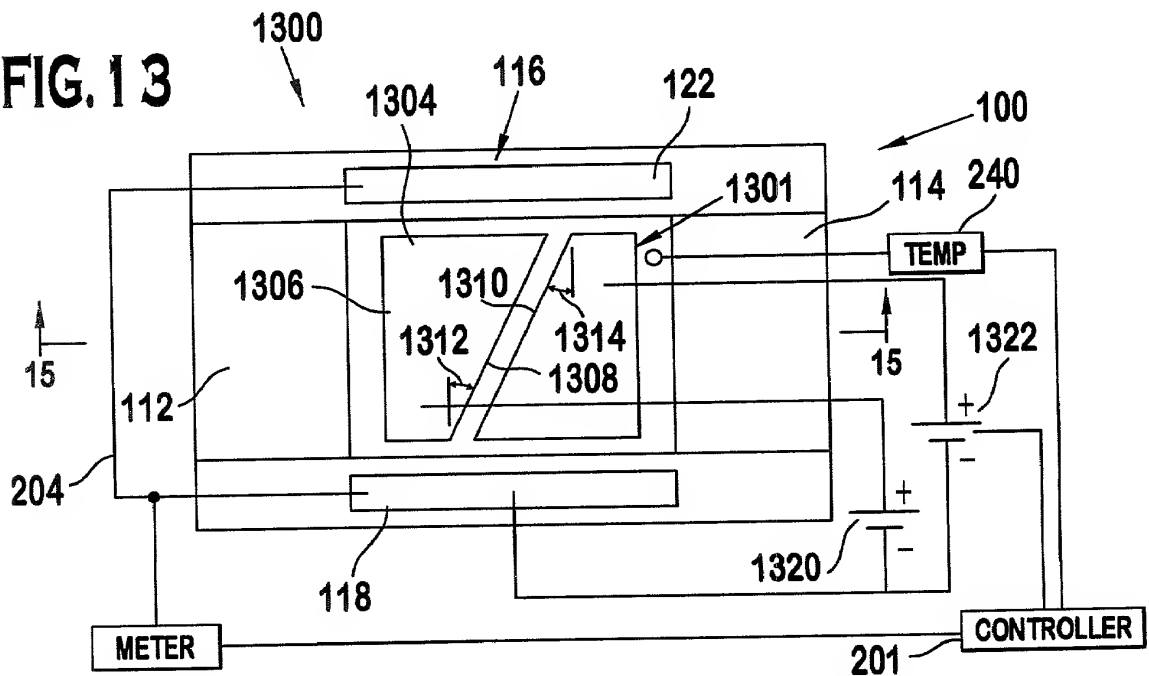
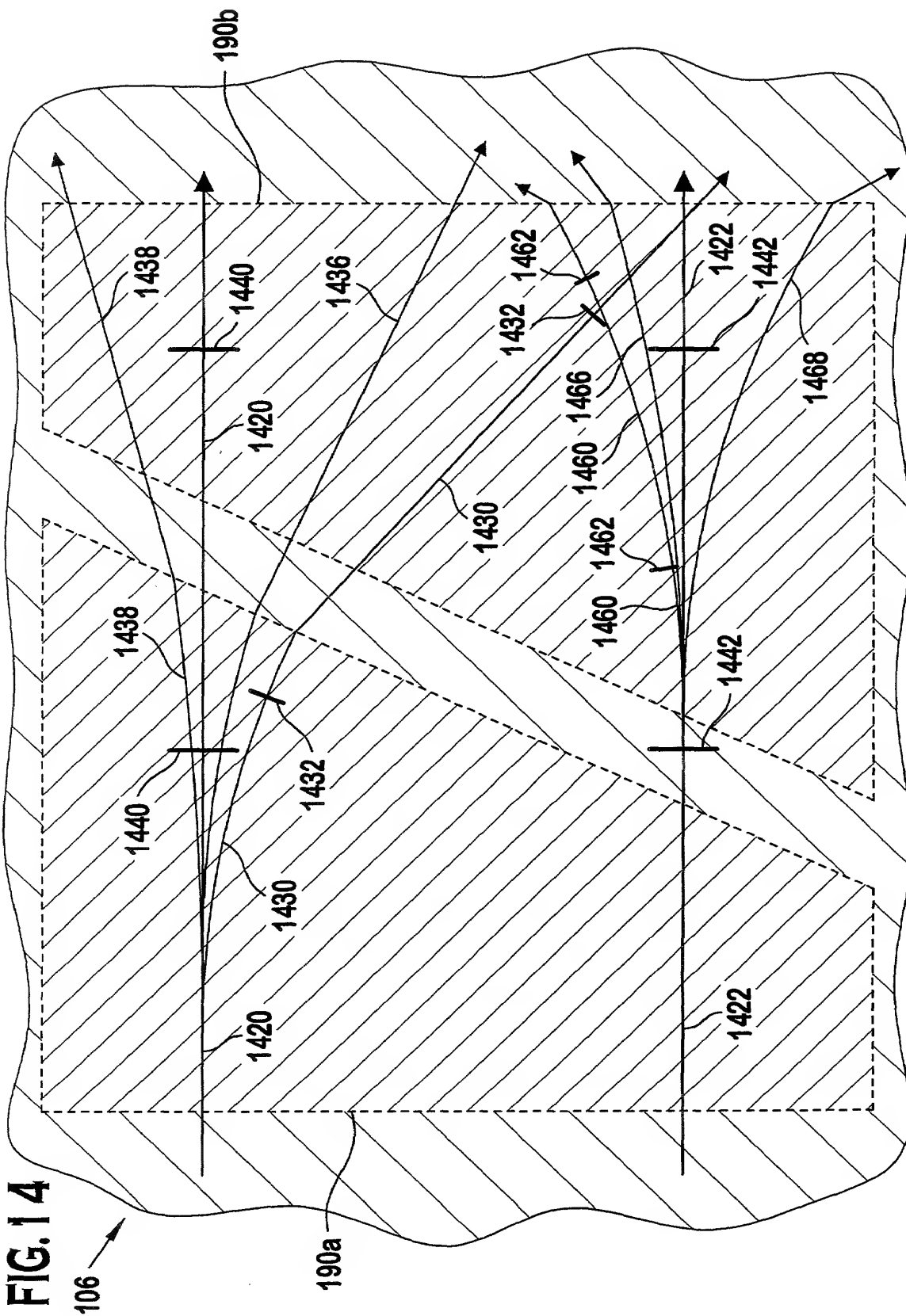


FIG. 13





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FIG. 15A

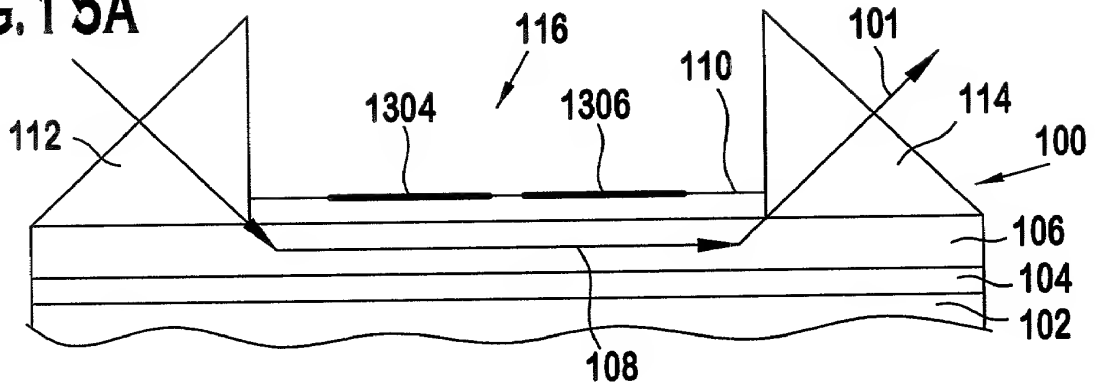


FIG. 15B

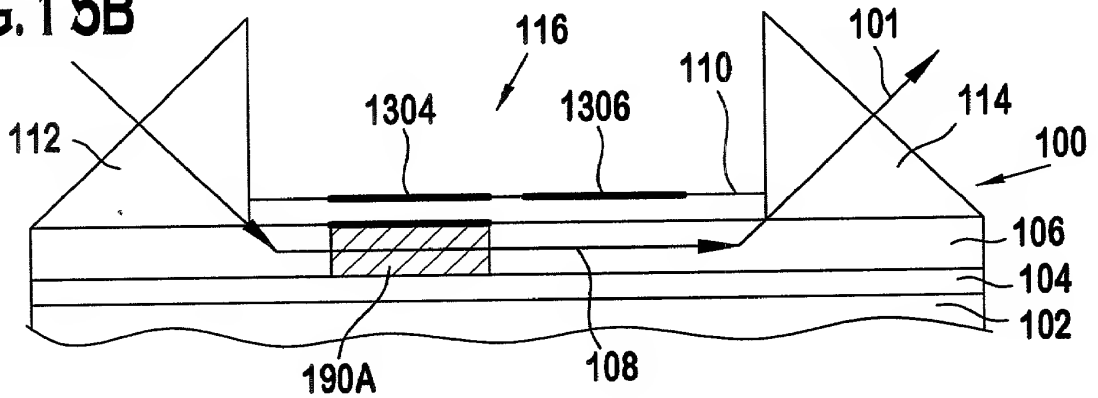


FIG. 15C

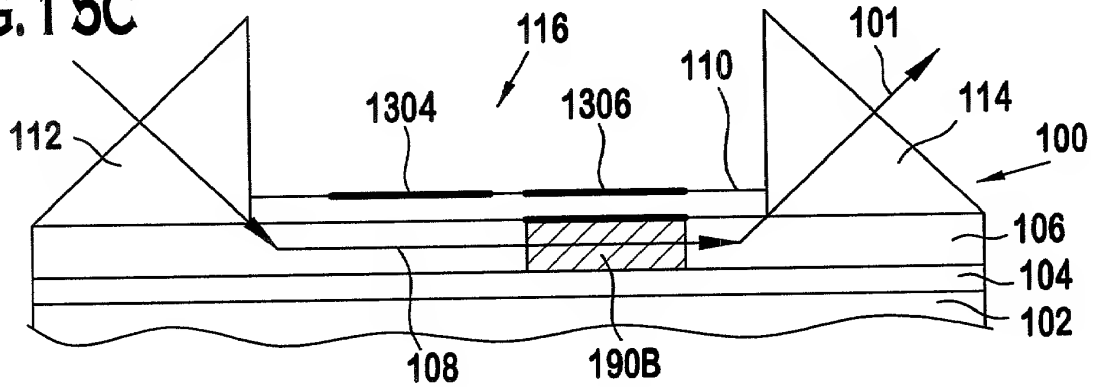
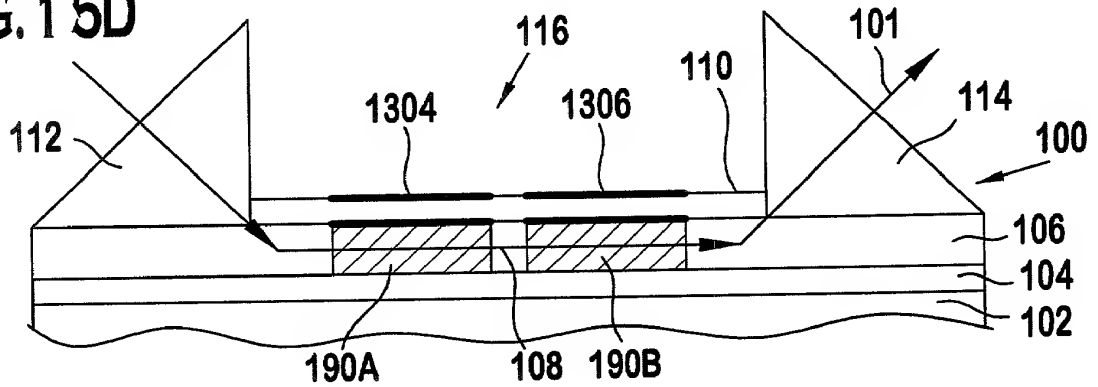


FIG. 15D



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FIG. 16

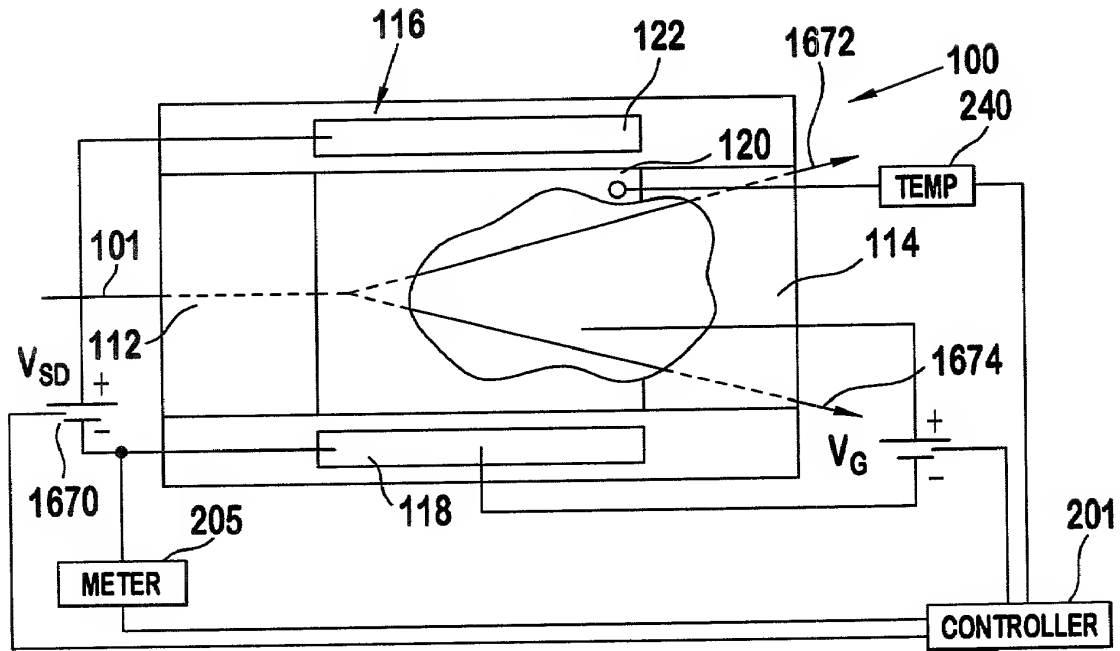


FIG. 17

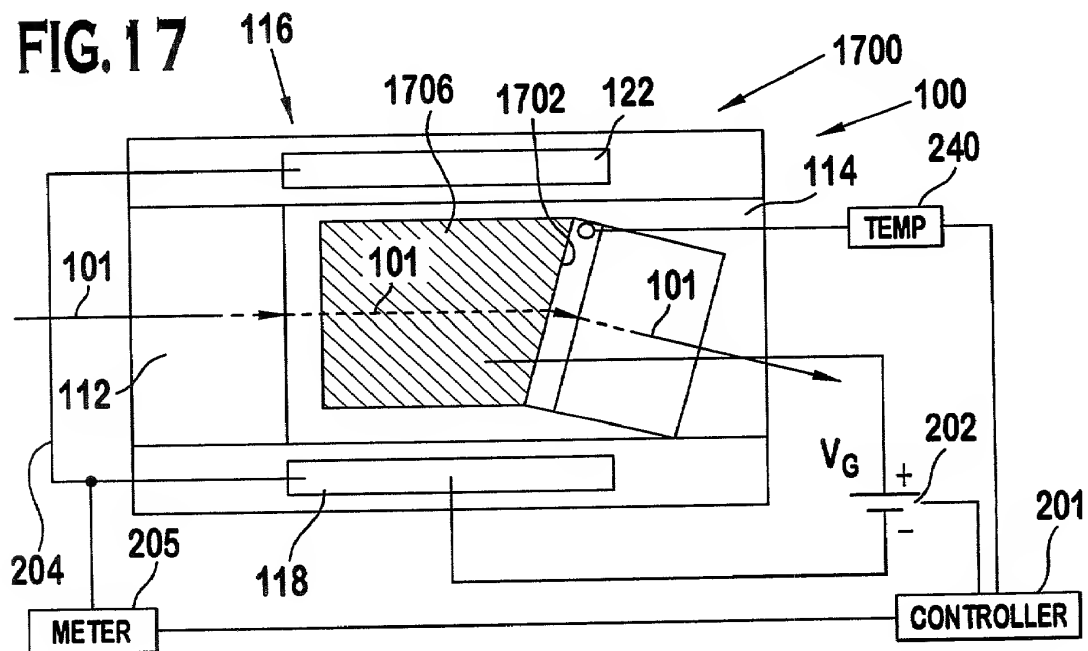
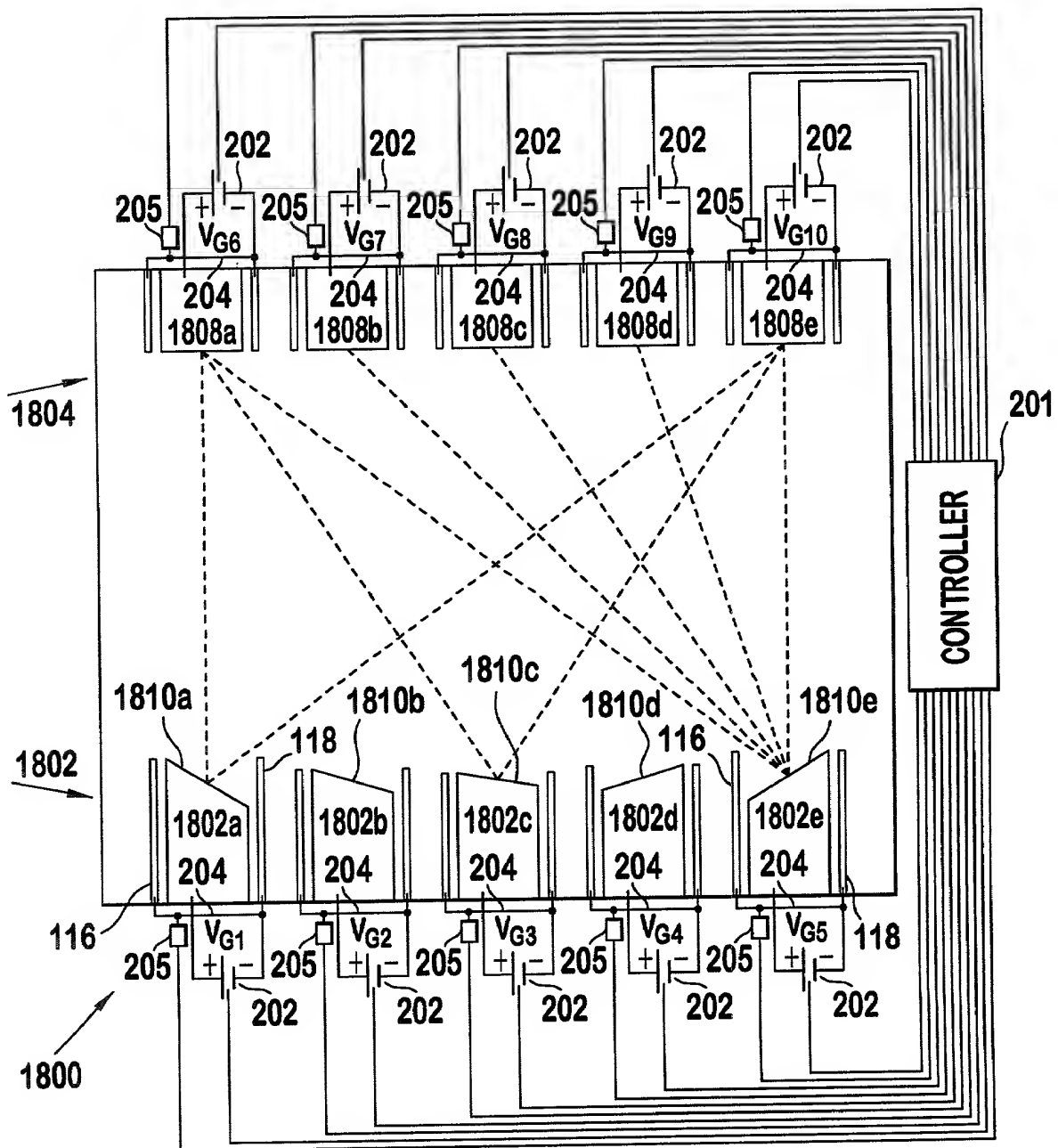


FIG. 18



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FIG. 19

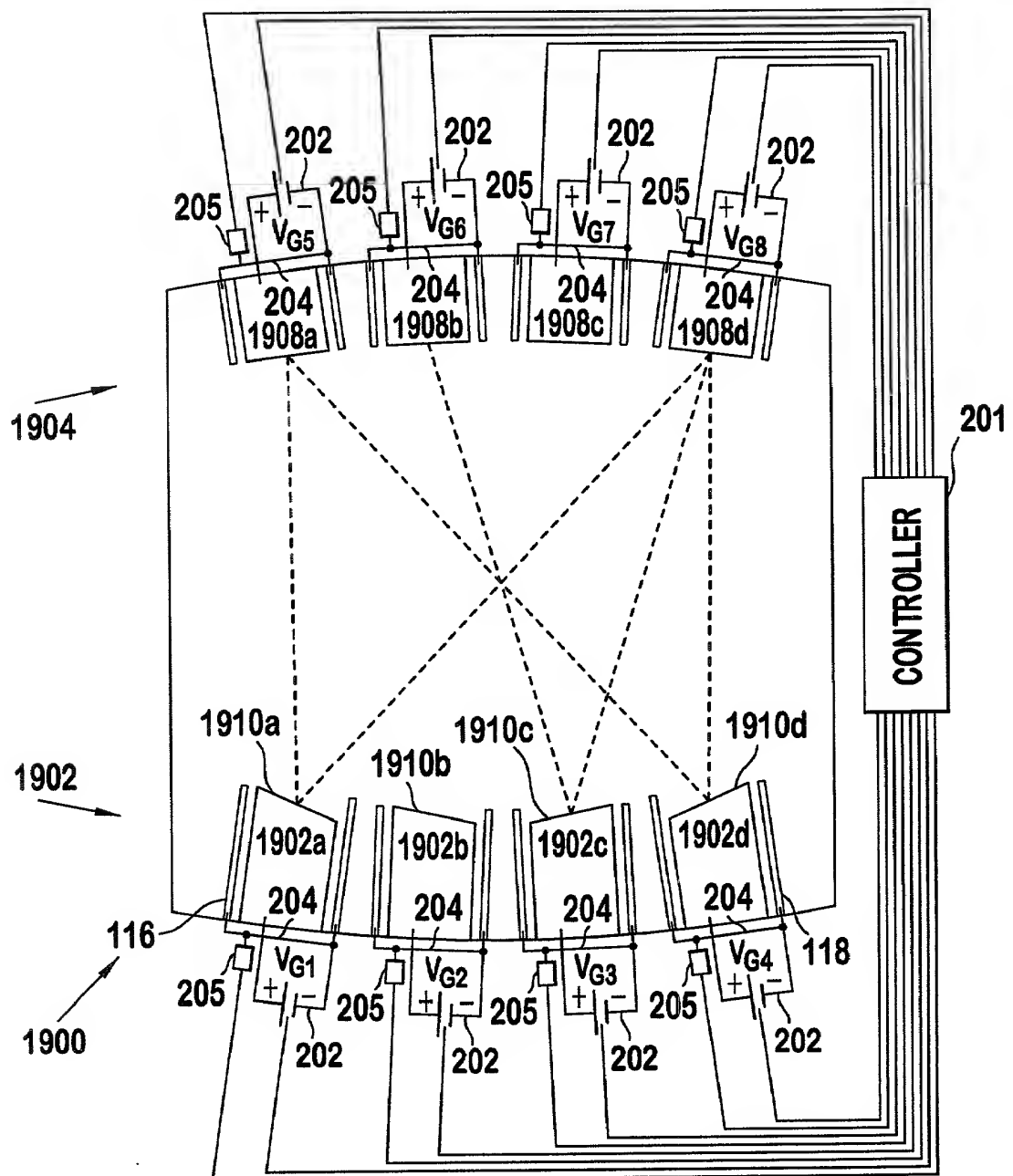


FIG. 20

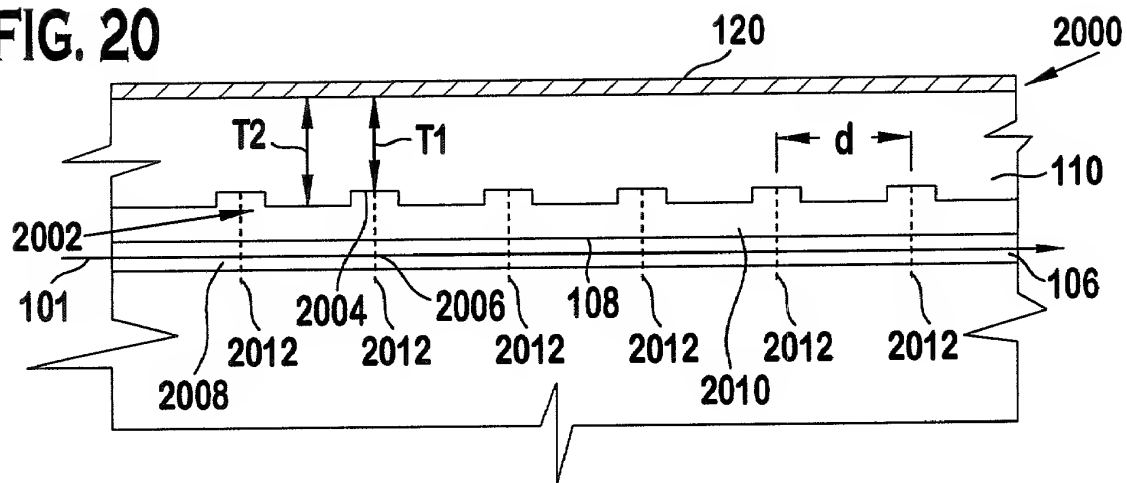


FIG. 21

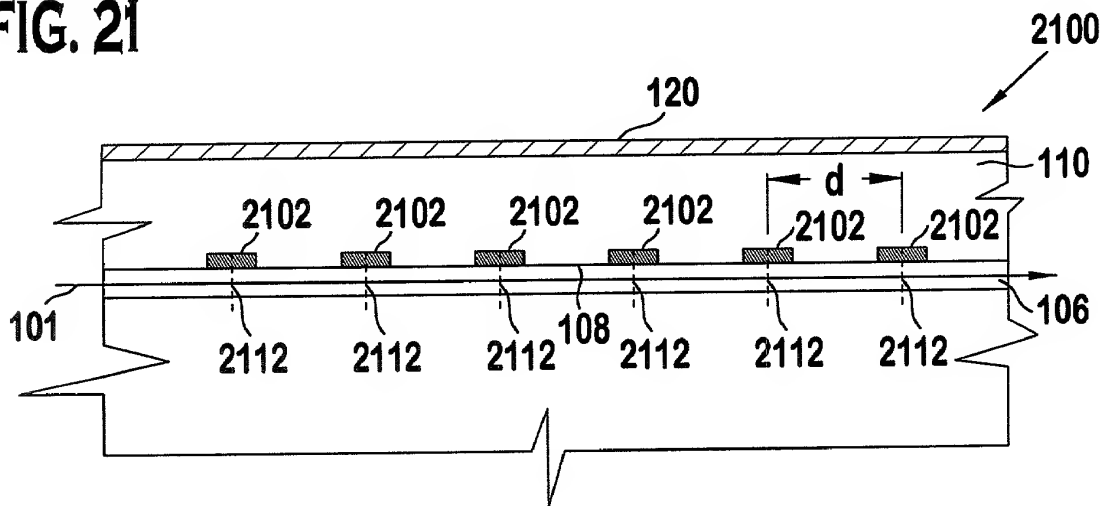


FIG. 22

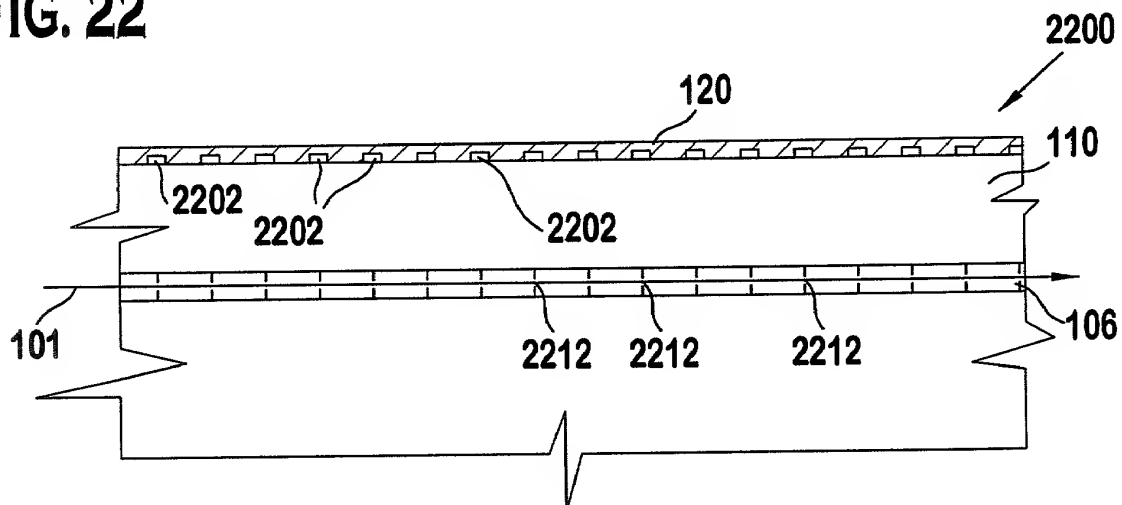


FIG. 23

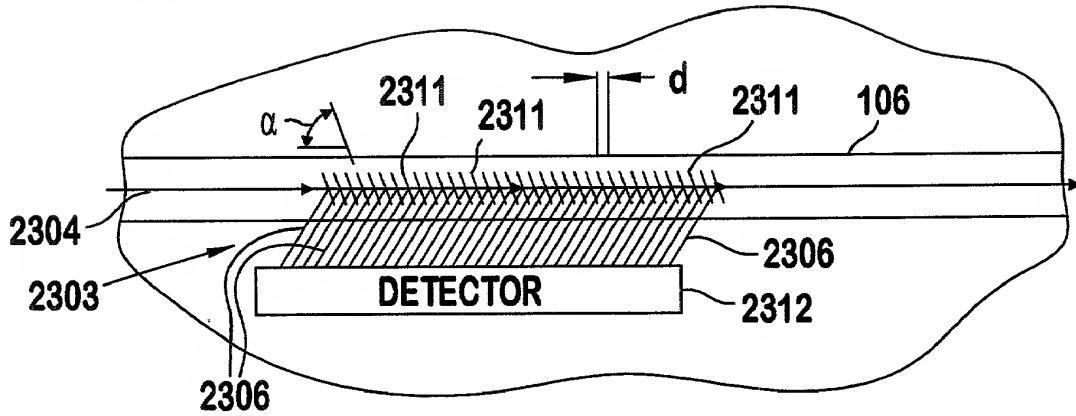
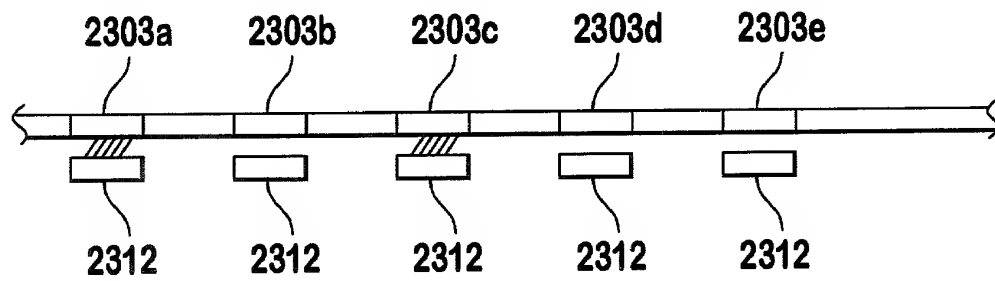


FIG. 24



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FIG. 25

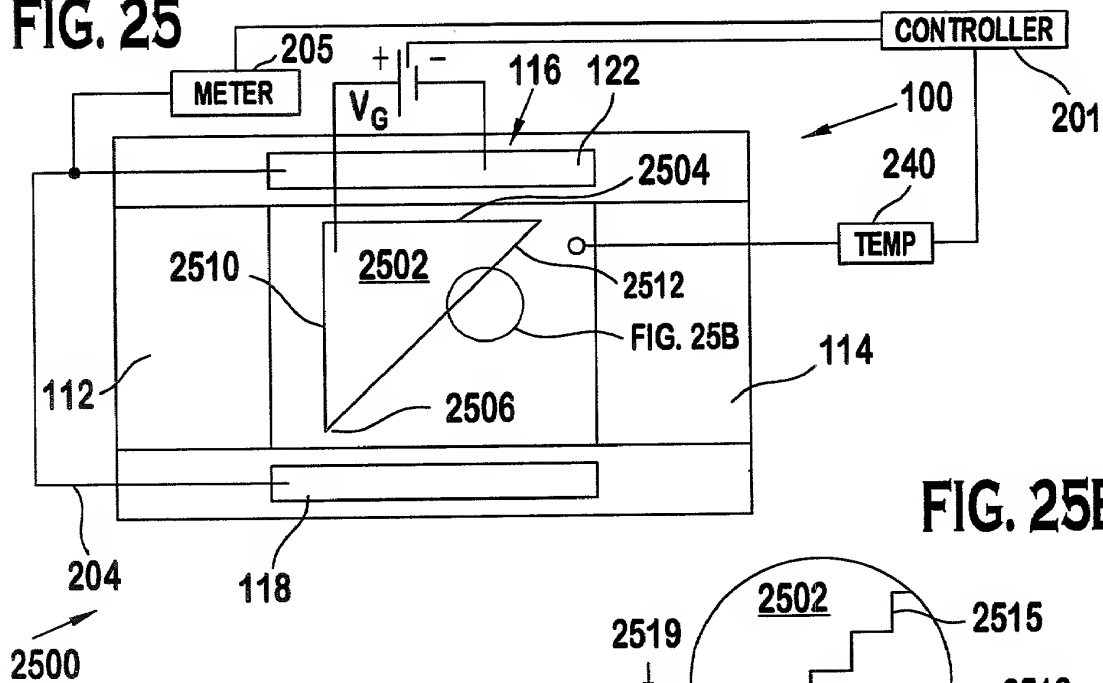


FIG. 25B

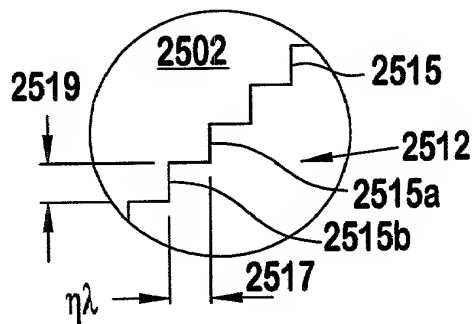


FIG. 26

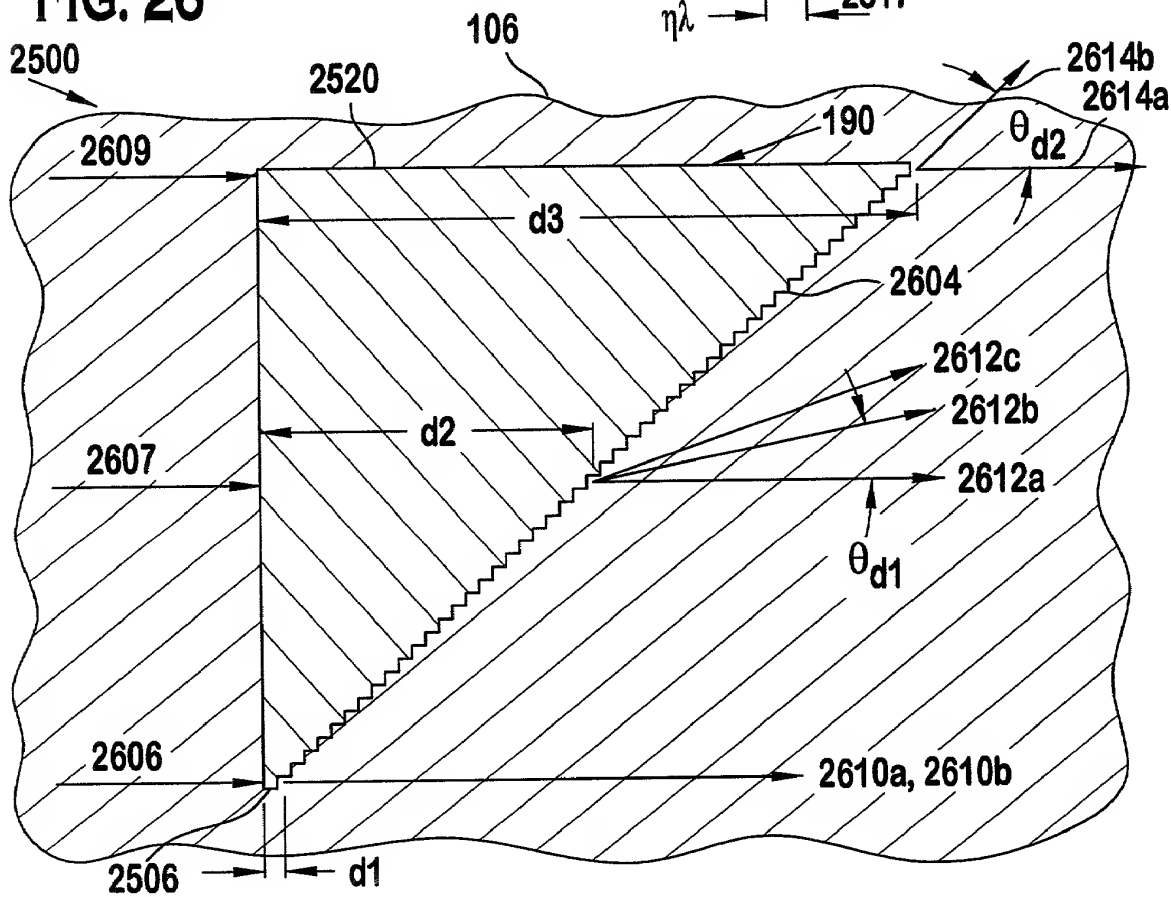


FIG. 27

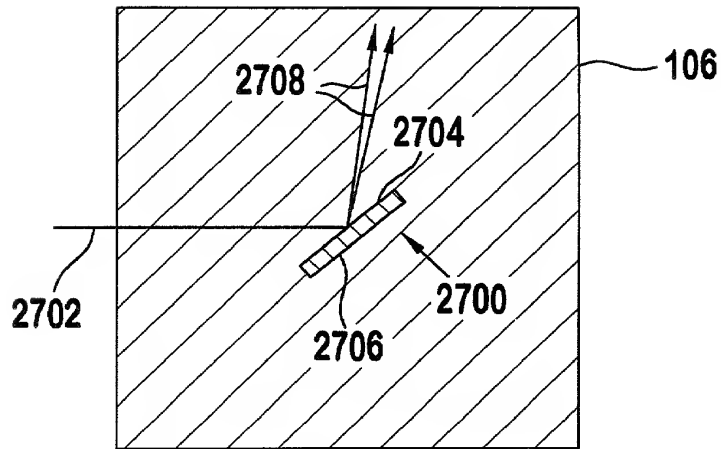


FIG. 28

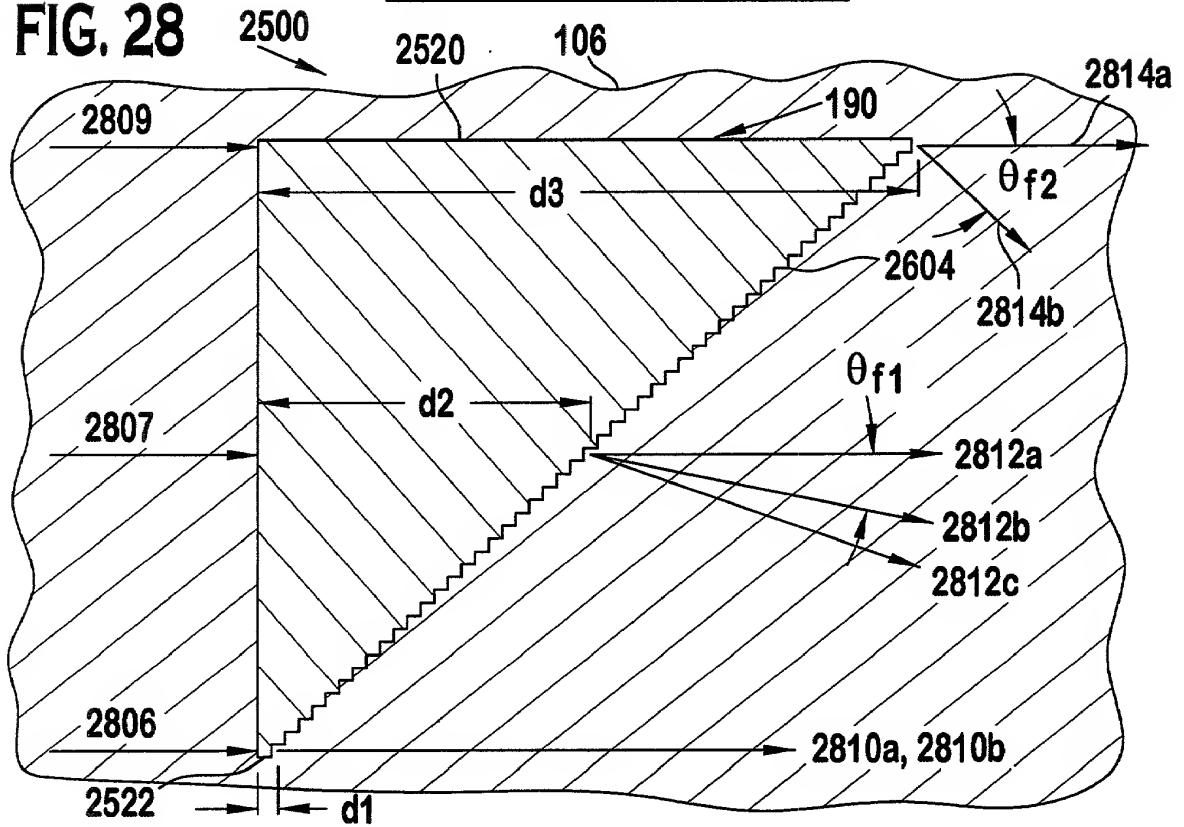


FIG. 29

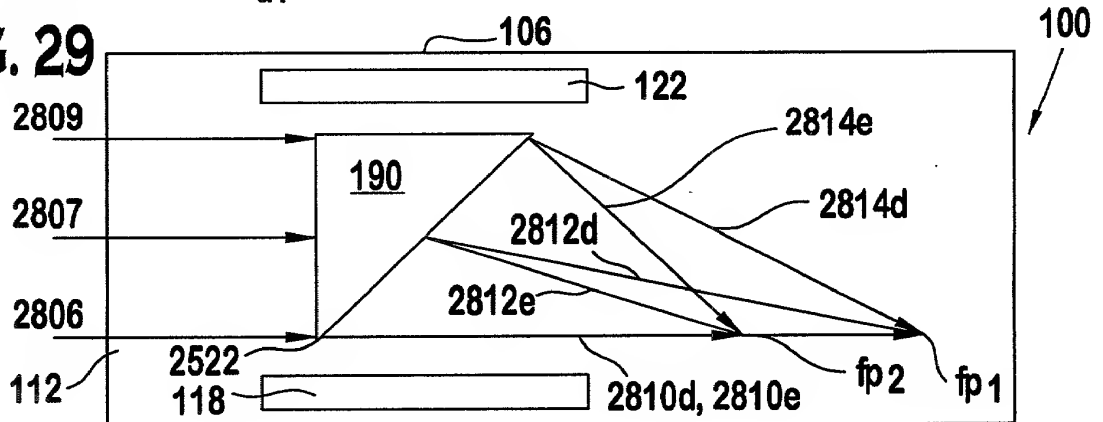


FIG. 30

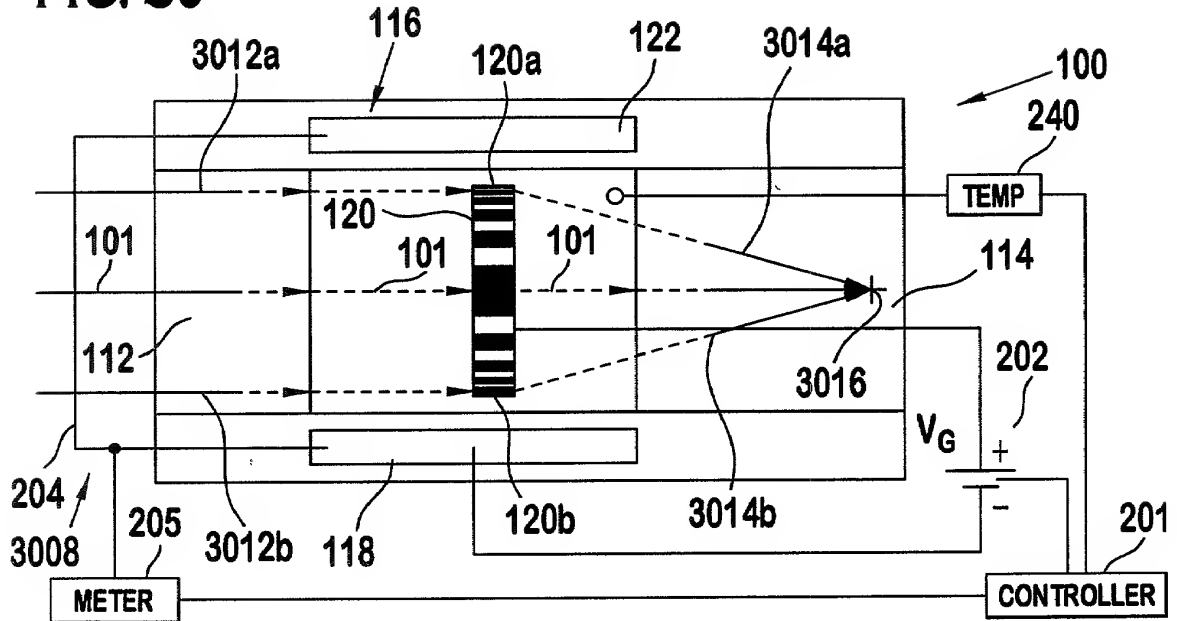
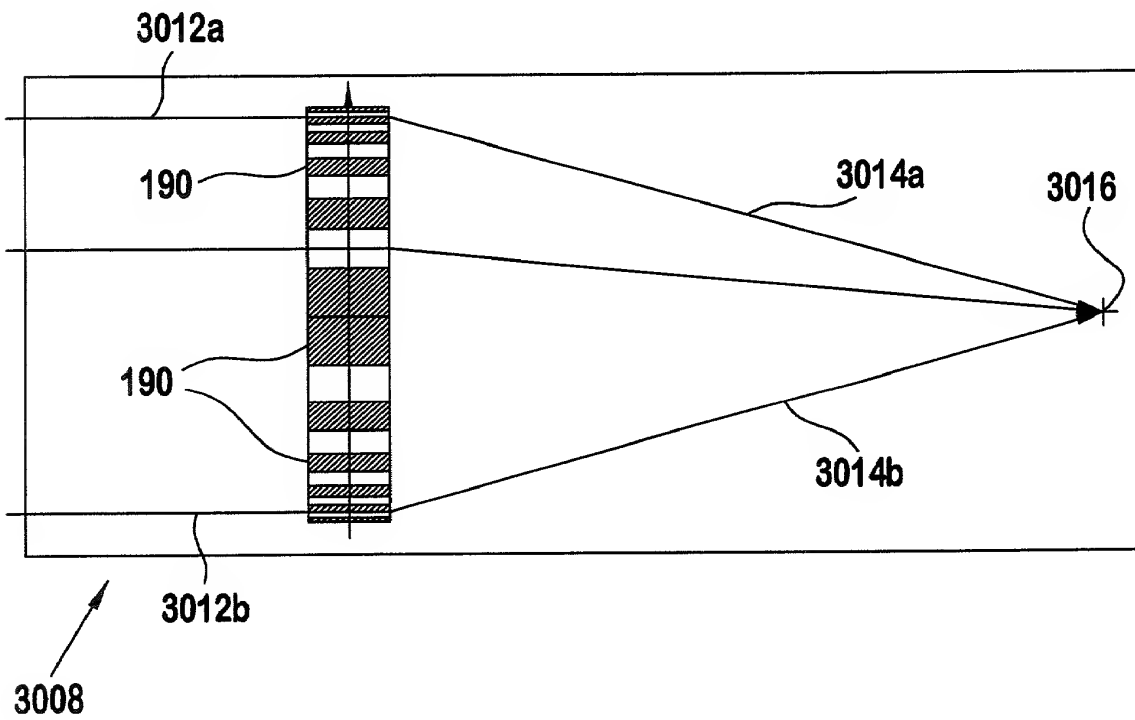


FIG. 30A



[illegible]

A schematic diagram showing a light beam passing through a lens and converging to a point. The beam is represented by a series of horizontal lines. The lens is a vertical rectangle labeled 190. The beam enters from the left, passes through the lens, and converges to a point labeled 3016. The beam is labeled 3112a and 3112b. The converging beam is labeled 3114a and 3114b. The point 3016 is labeled 3016.

[illegible]

FIG. 33

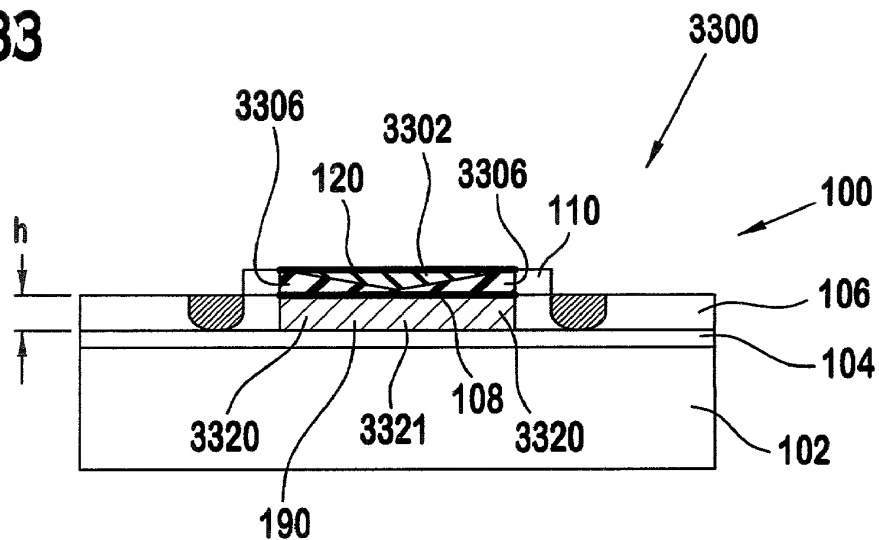
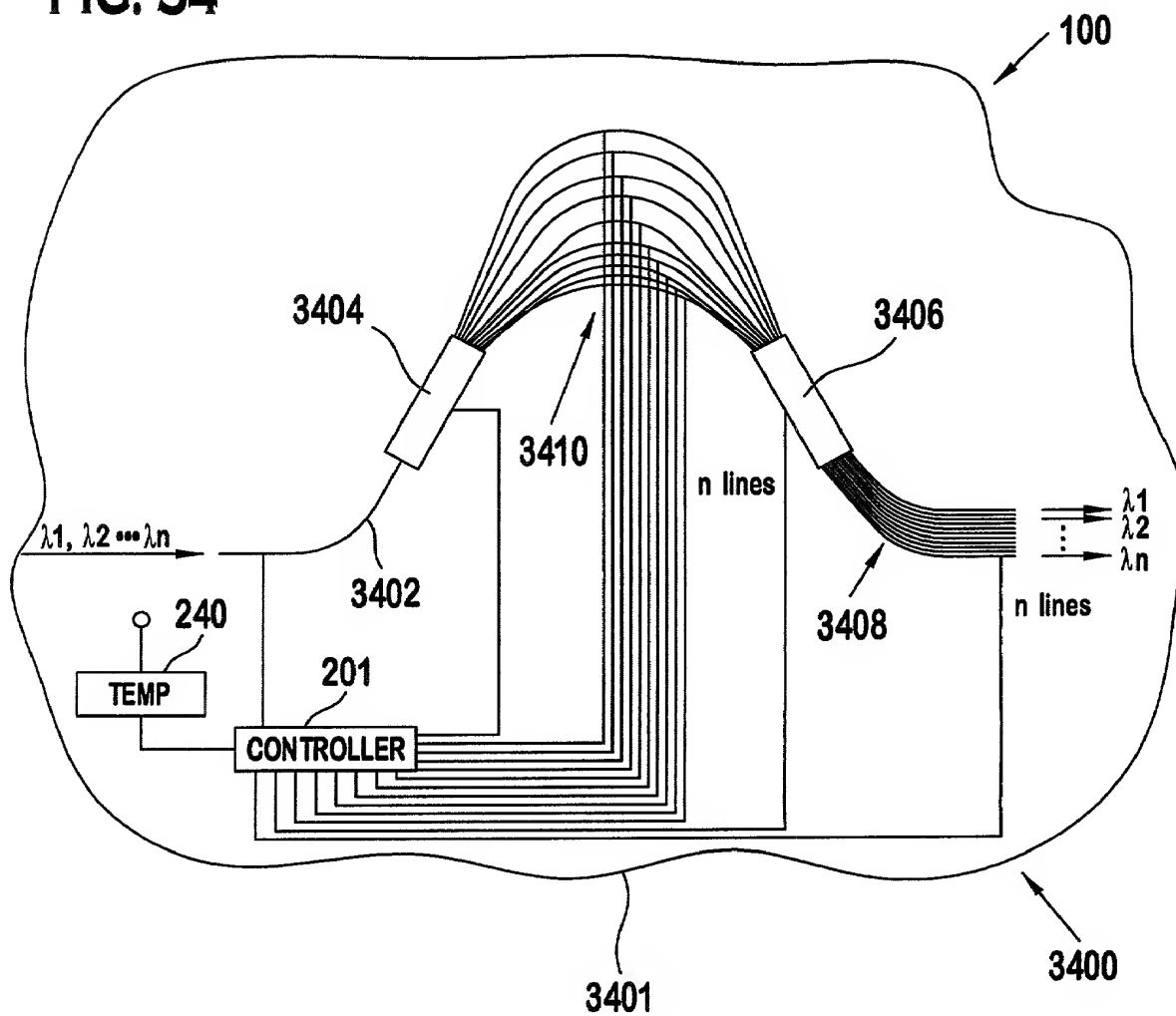


FIG. 34



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FIG. 35

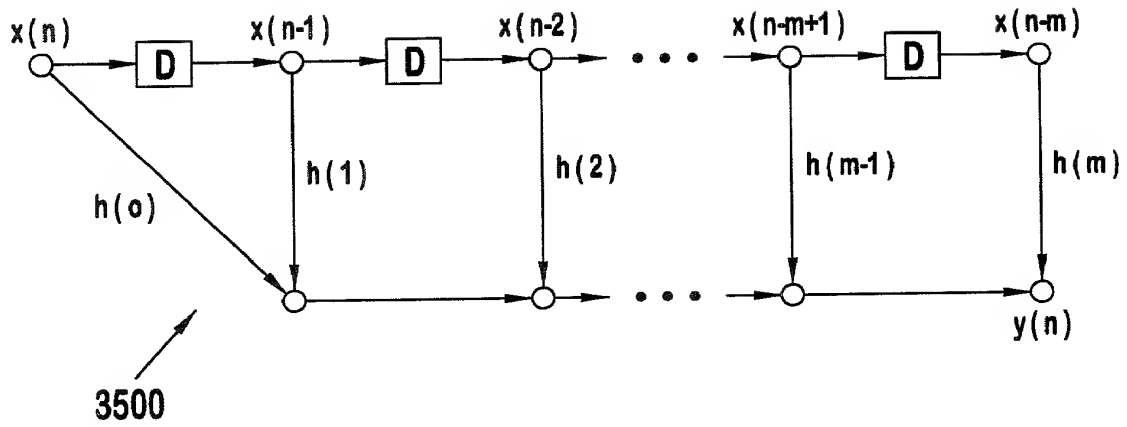


FIG. 36

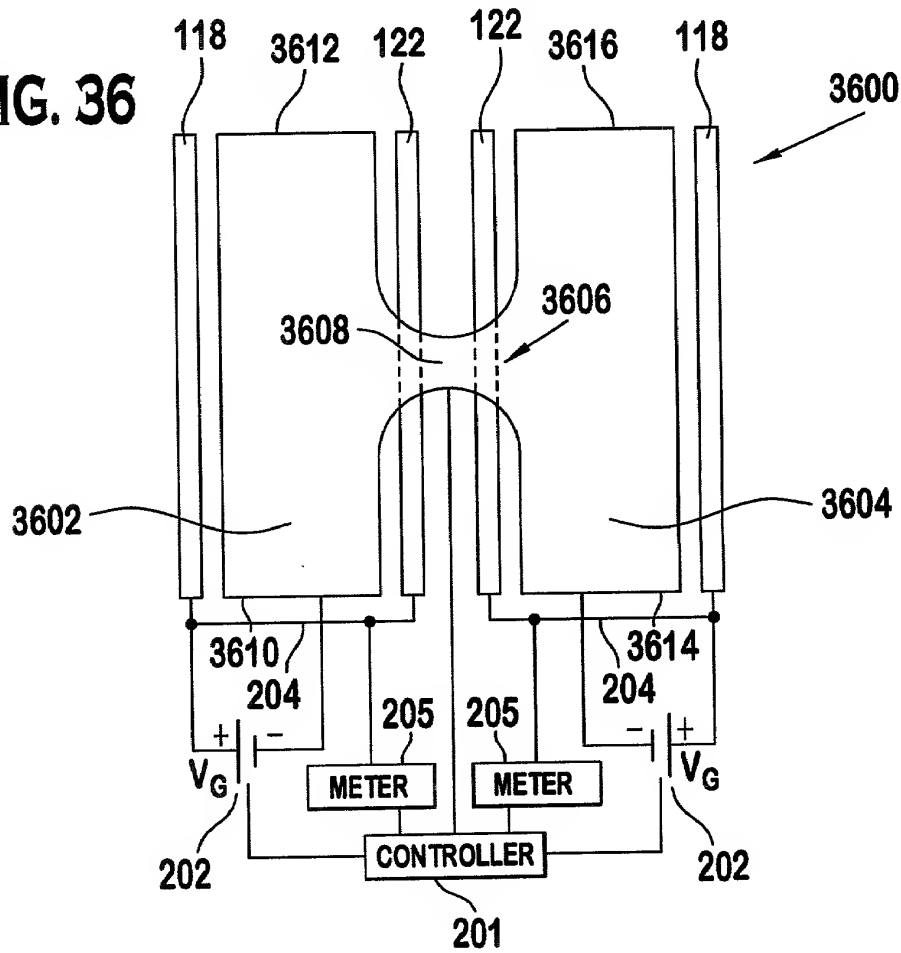


FIG. 37

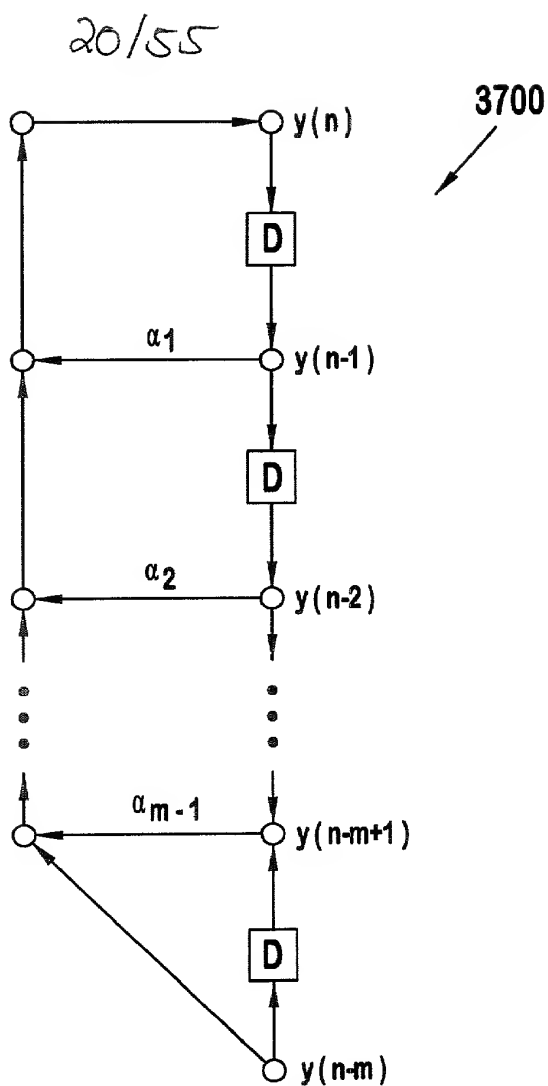


FIG. 38

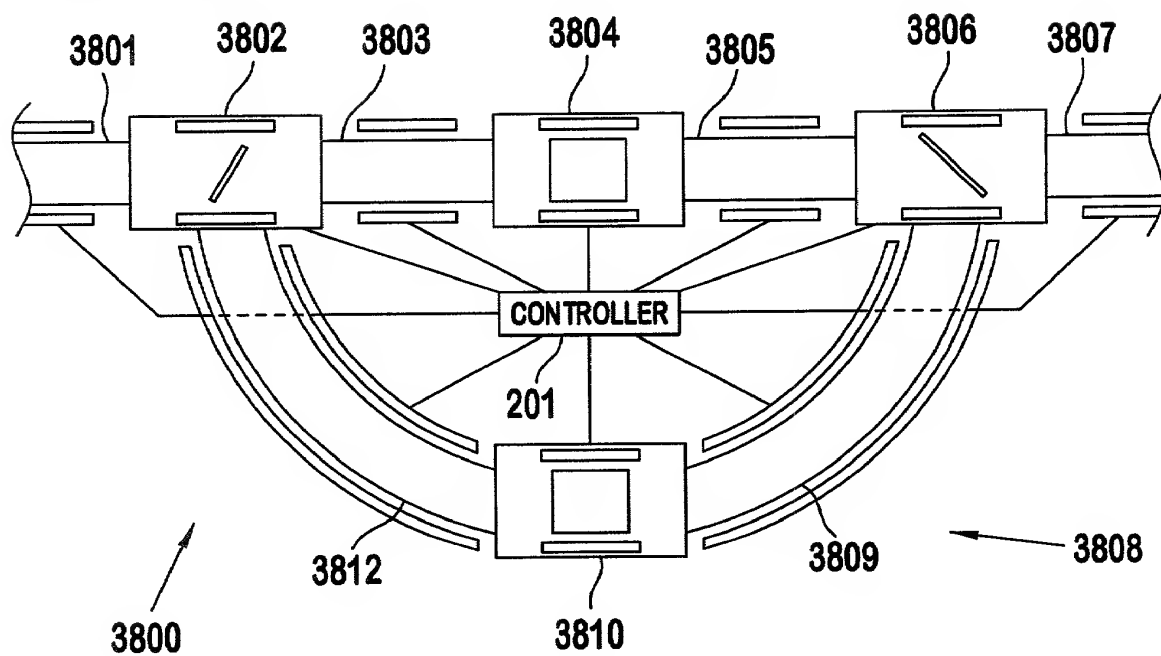
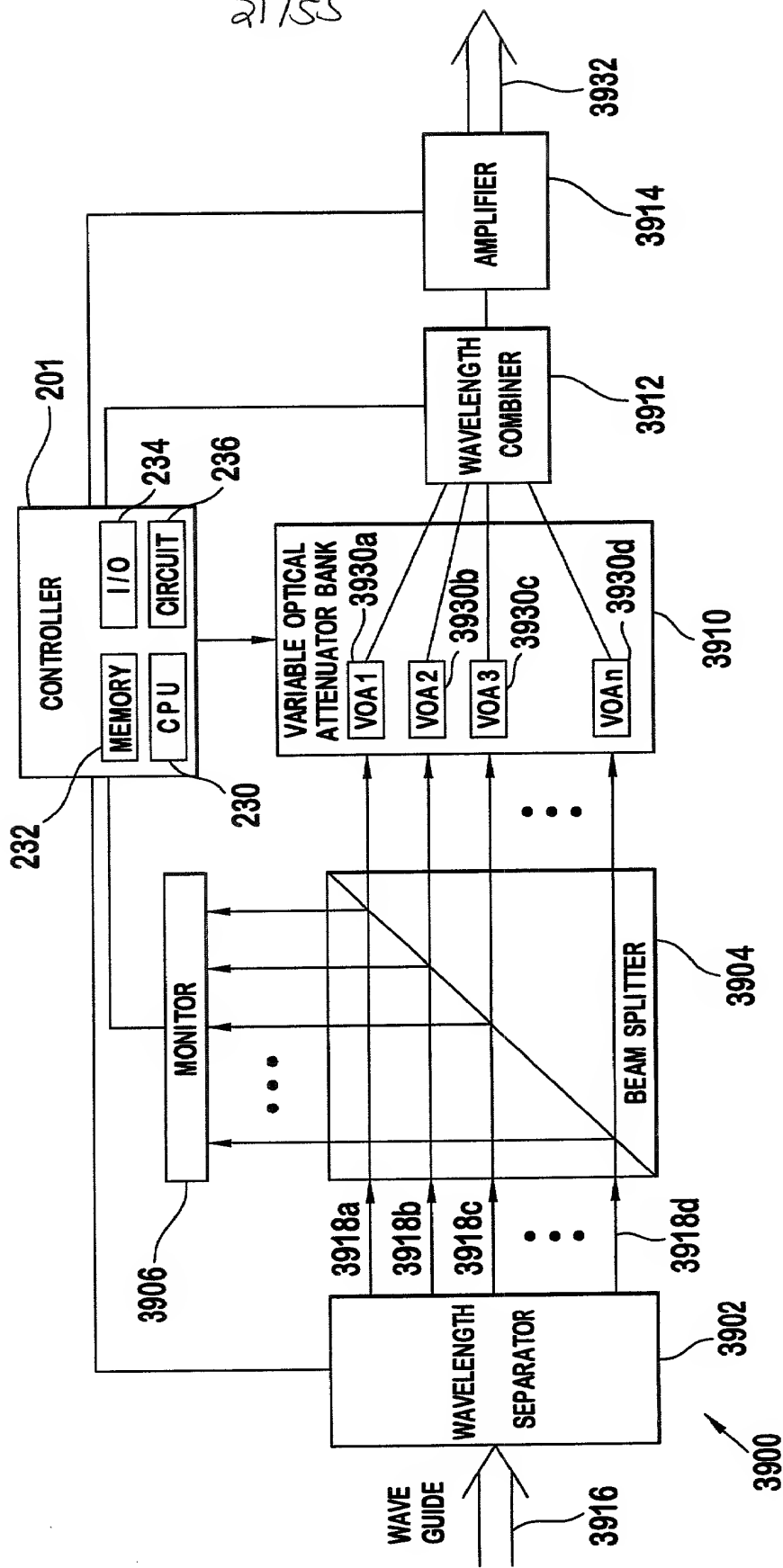
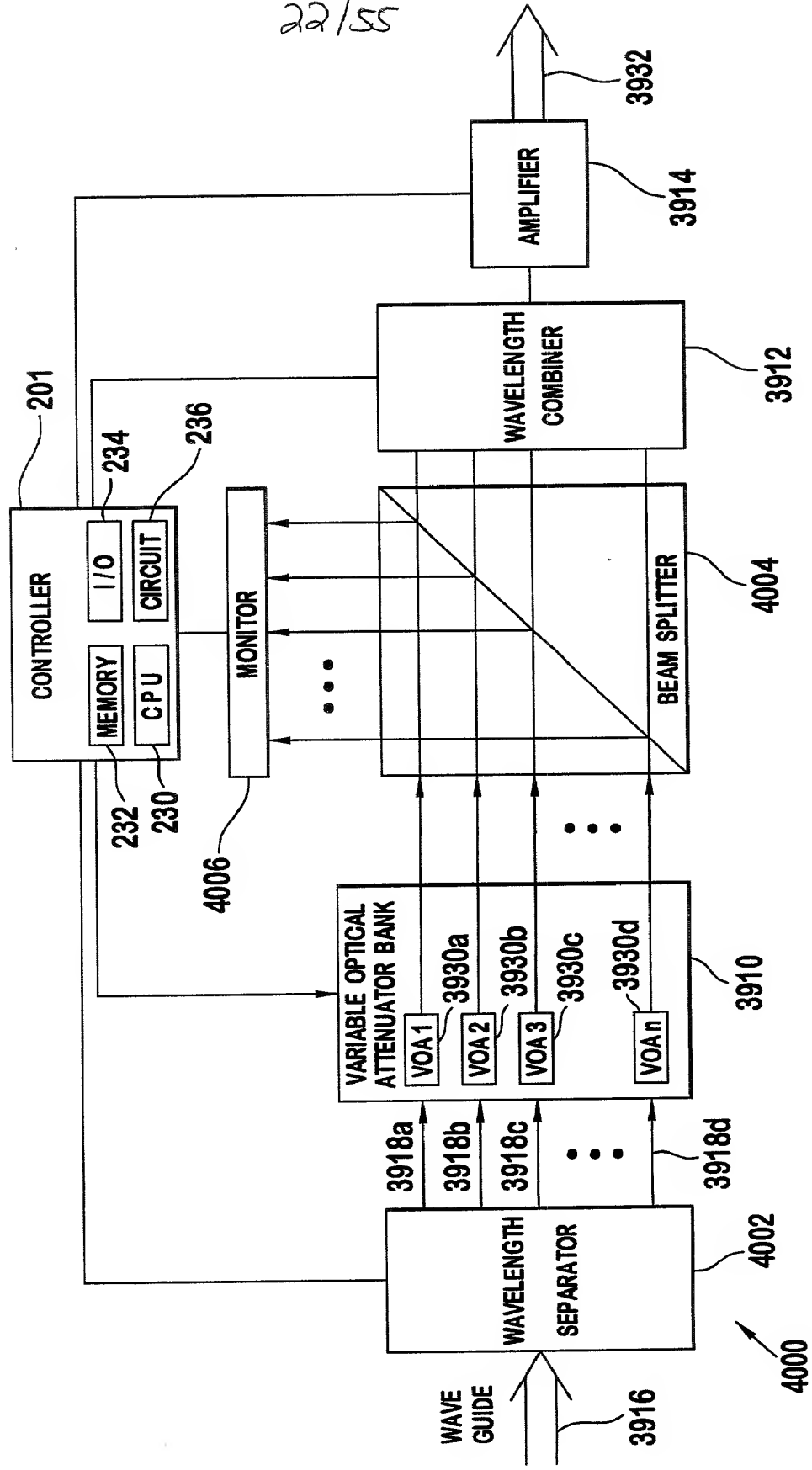


FIG. 39



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FIG. 40



[illegible]

MONITOR

FIG. 42

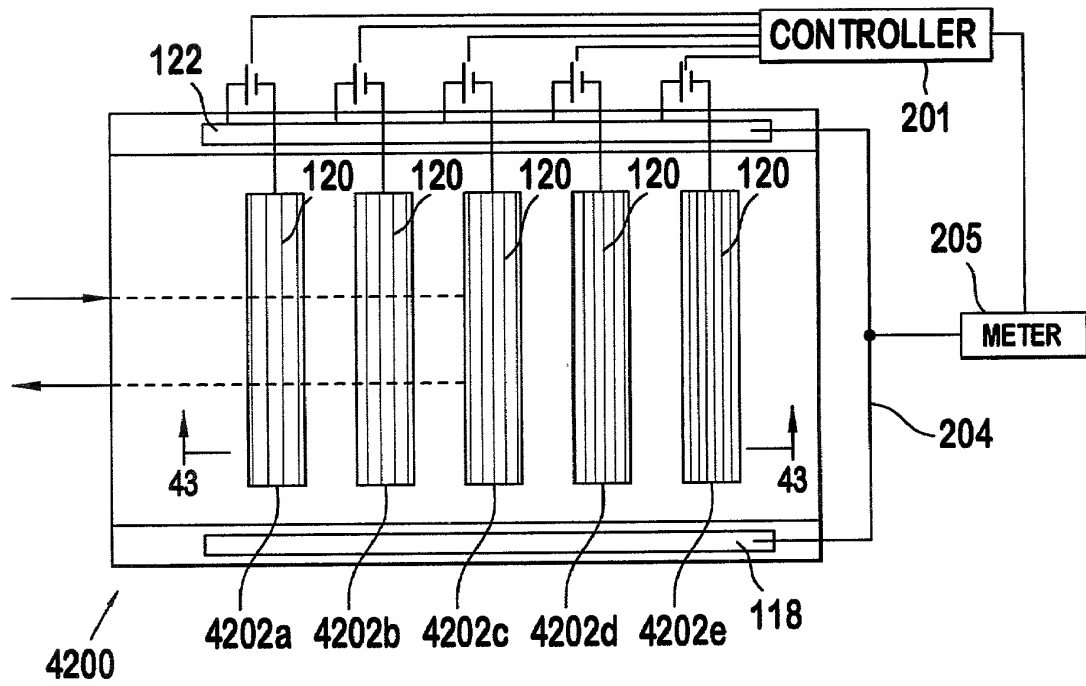
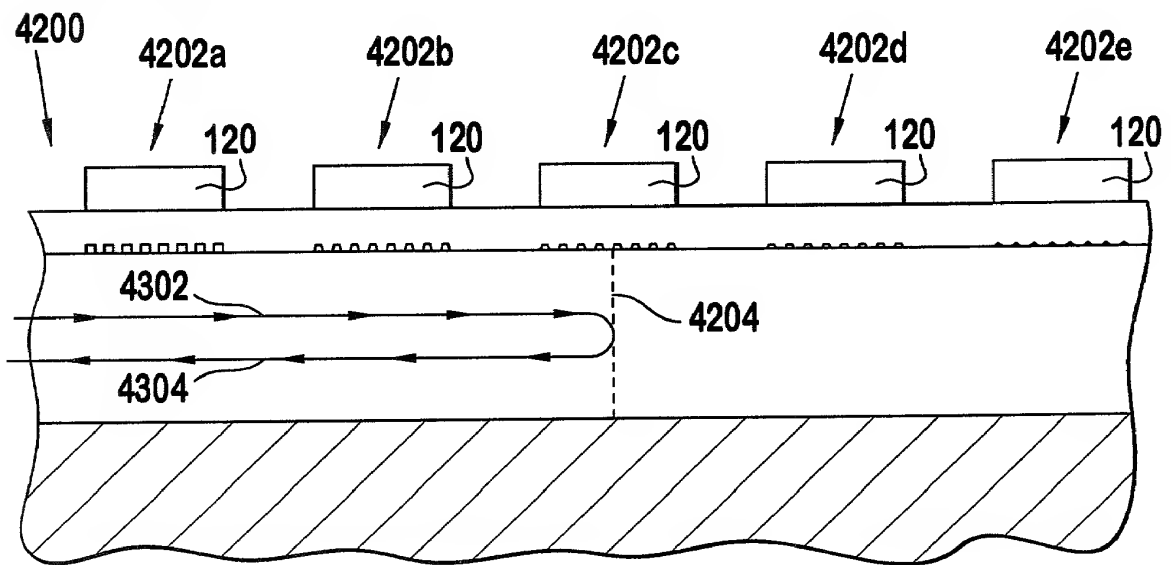


FIG. 43



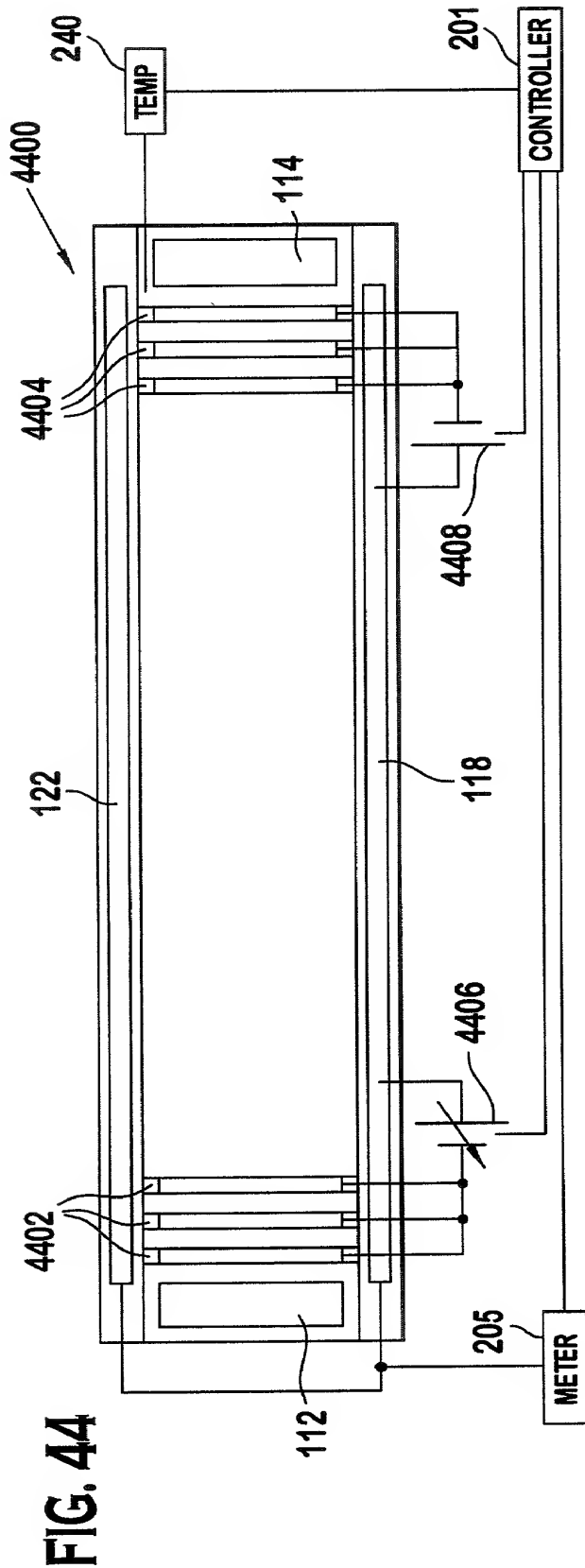
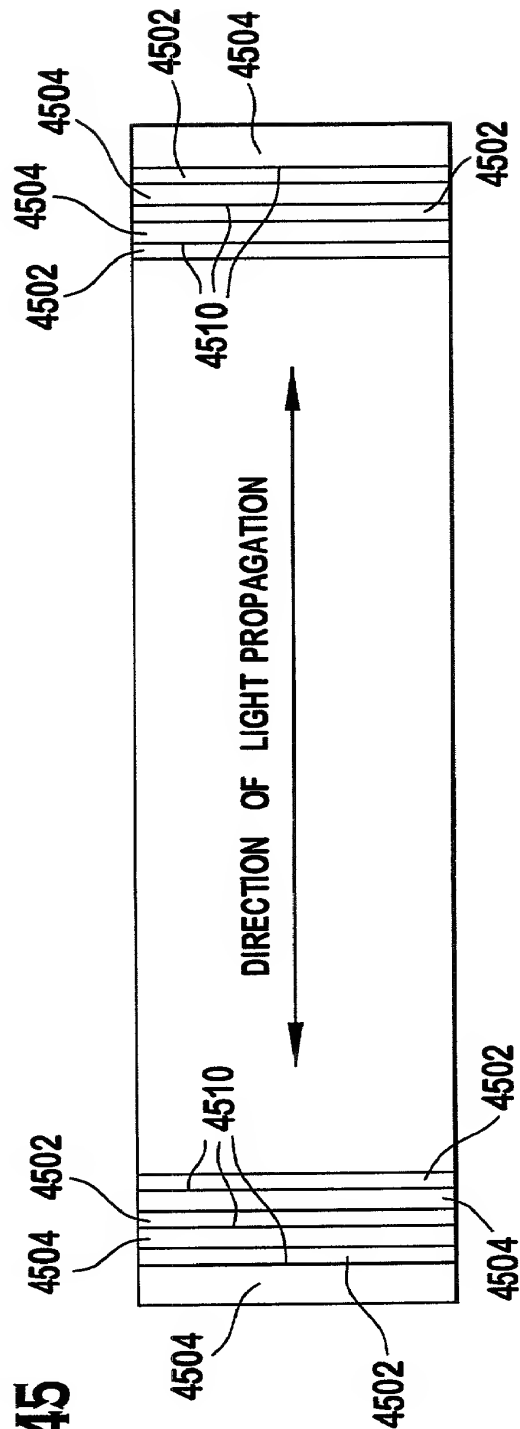
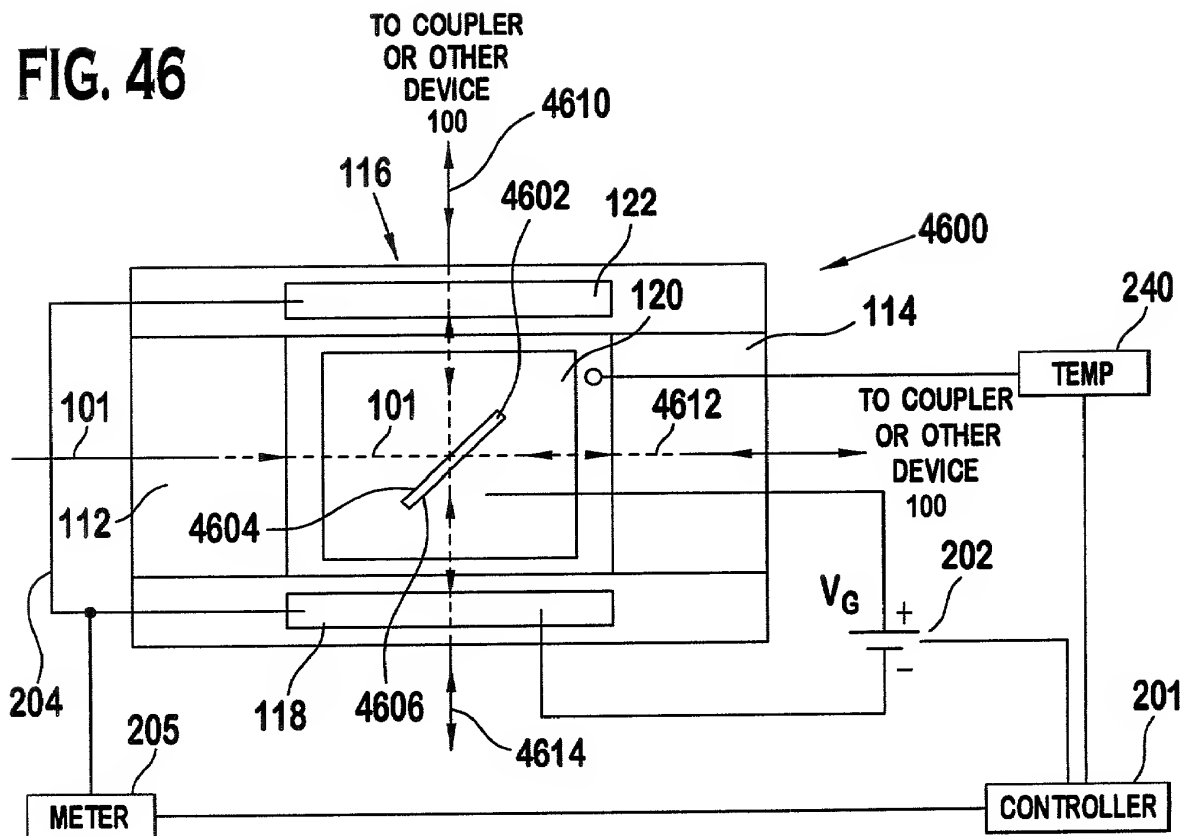


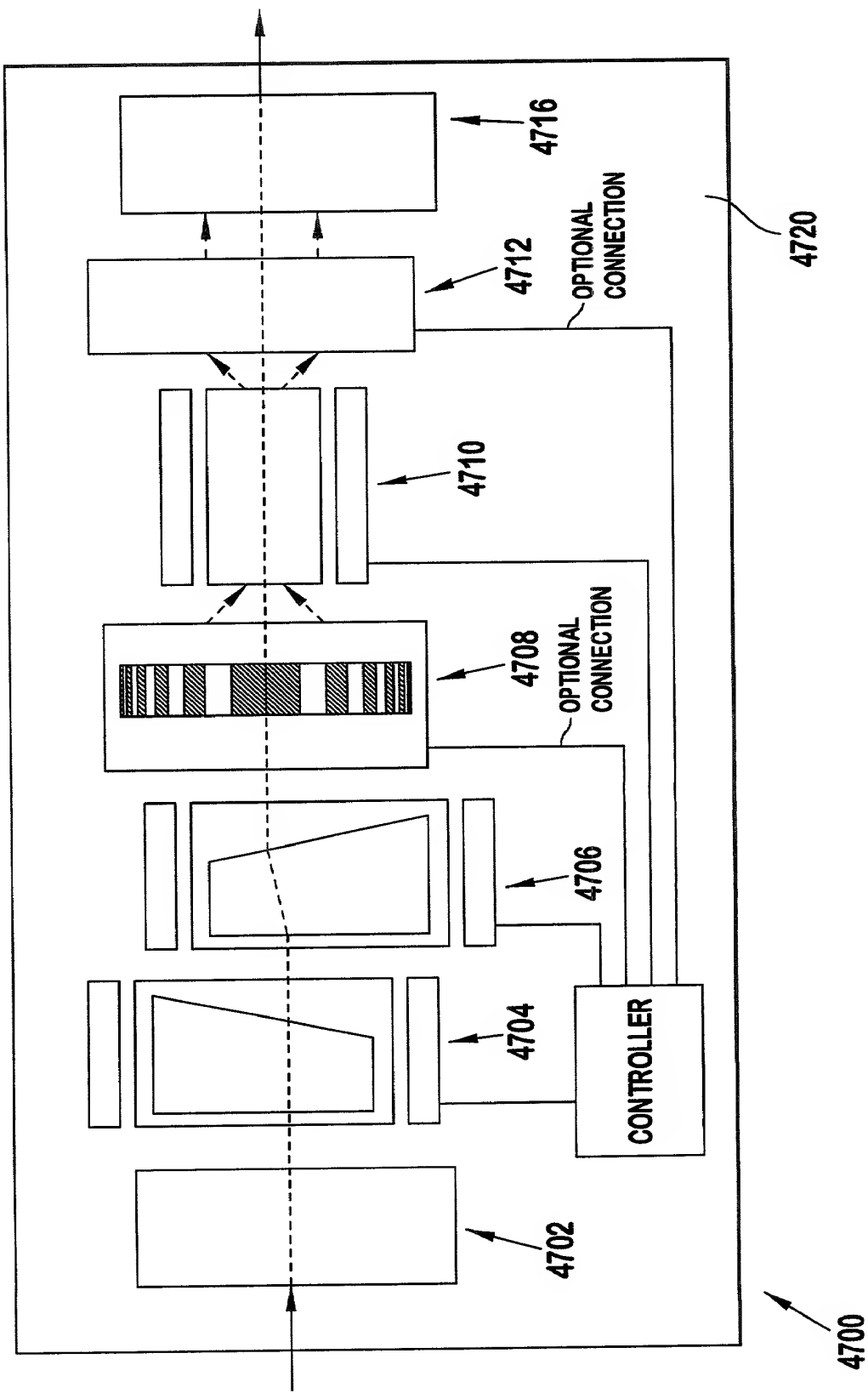
FIG. 45



[illegible]

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FIG. 47



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FIG. 48

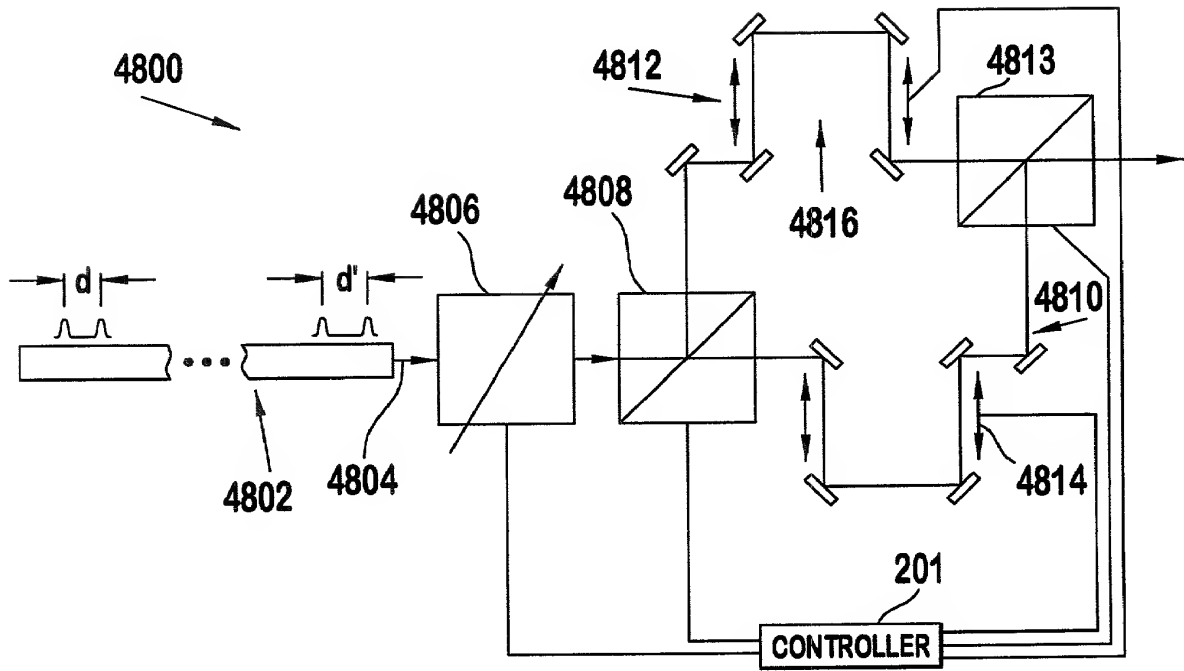
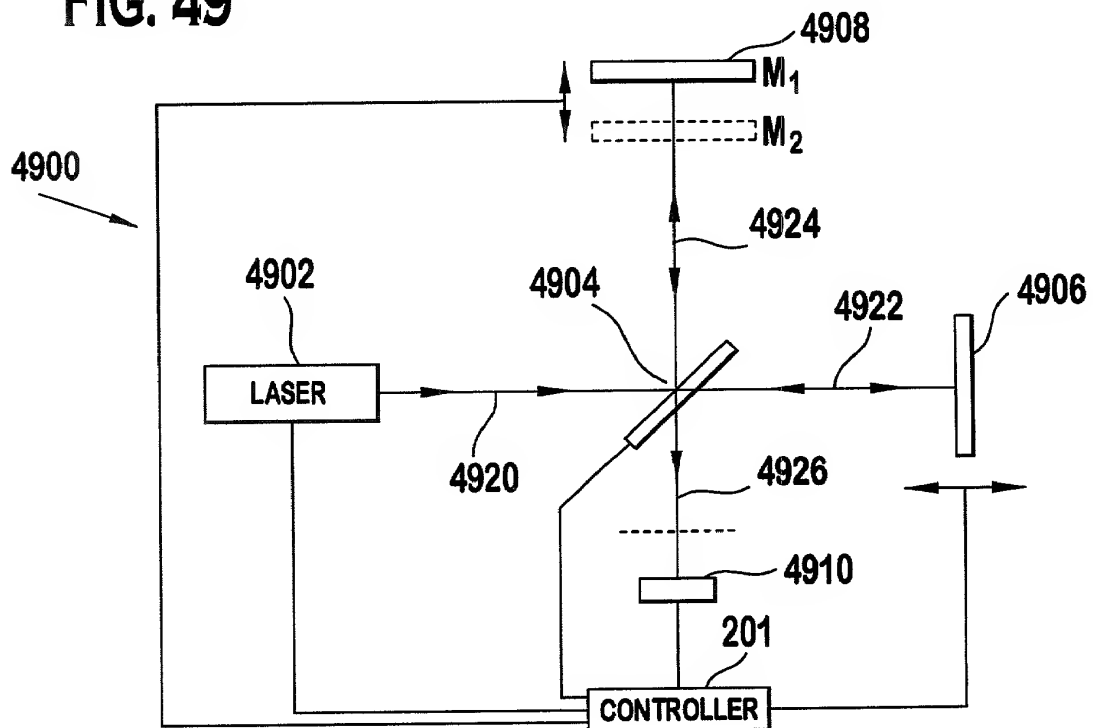


FIG. 49



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FIG. 50

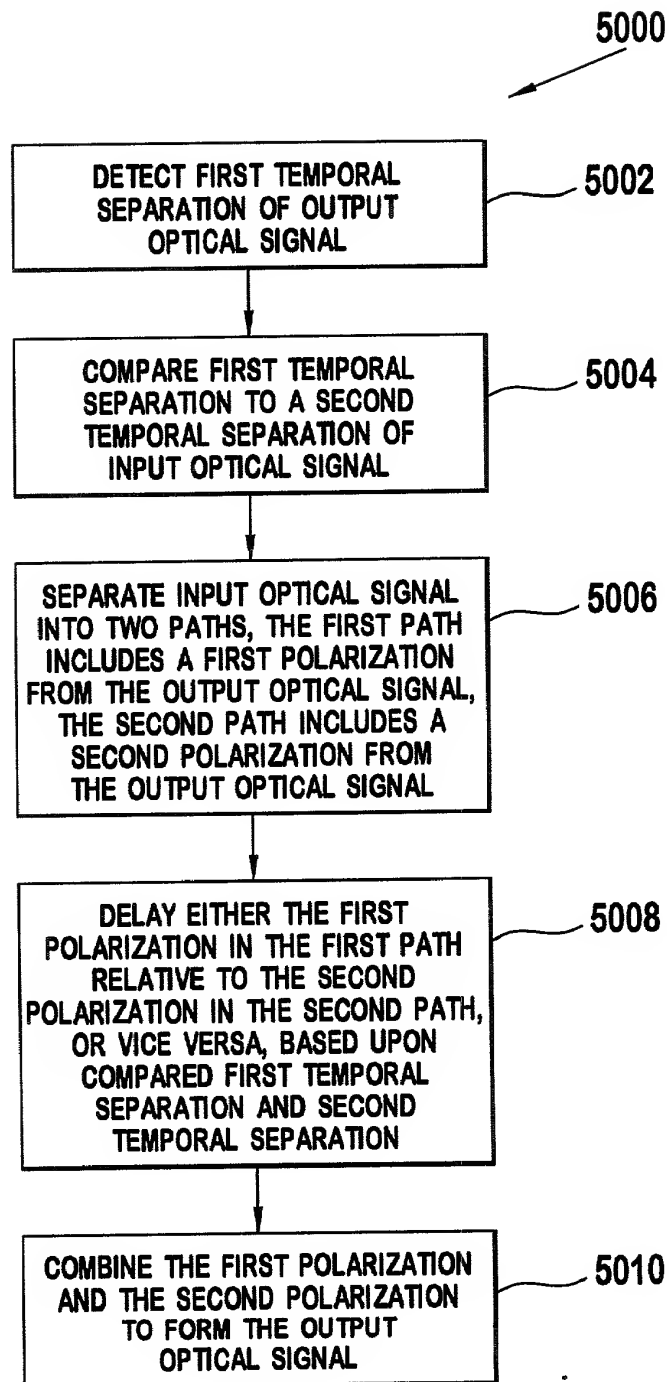


FIG. 51

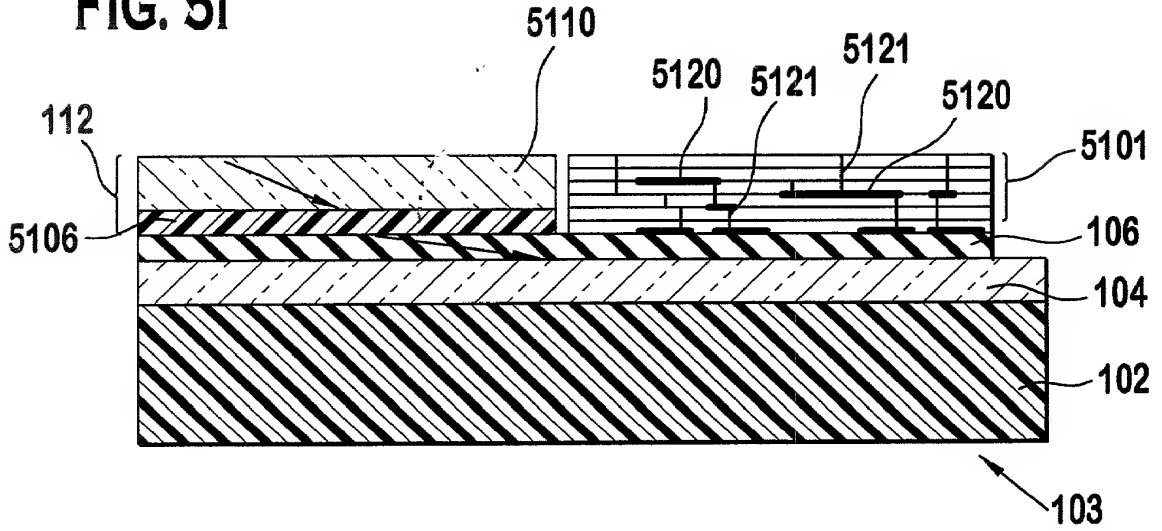
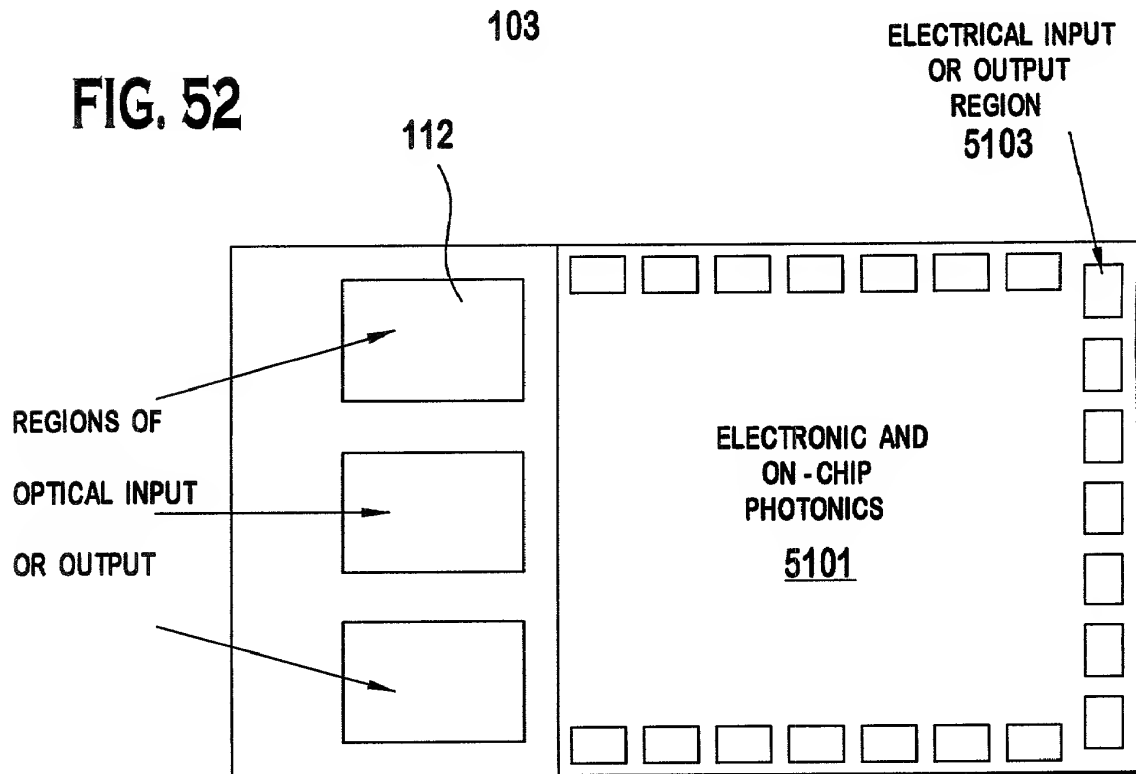


FIG. 52



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FIG. 53

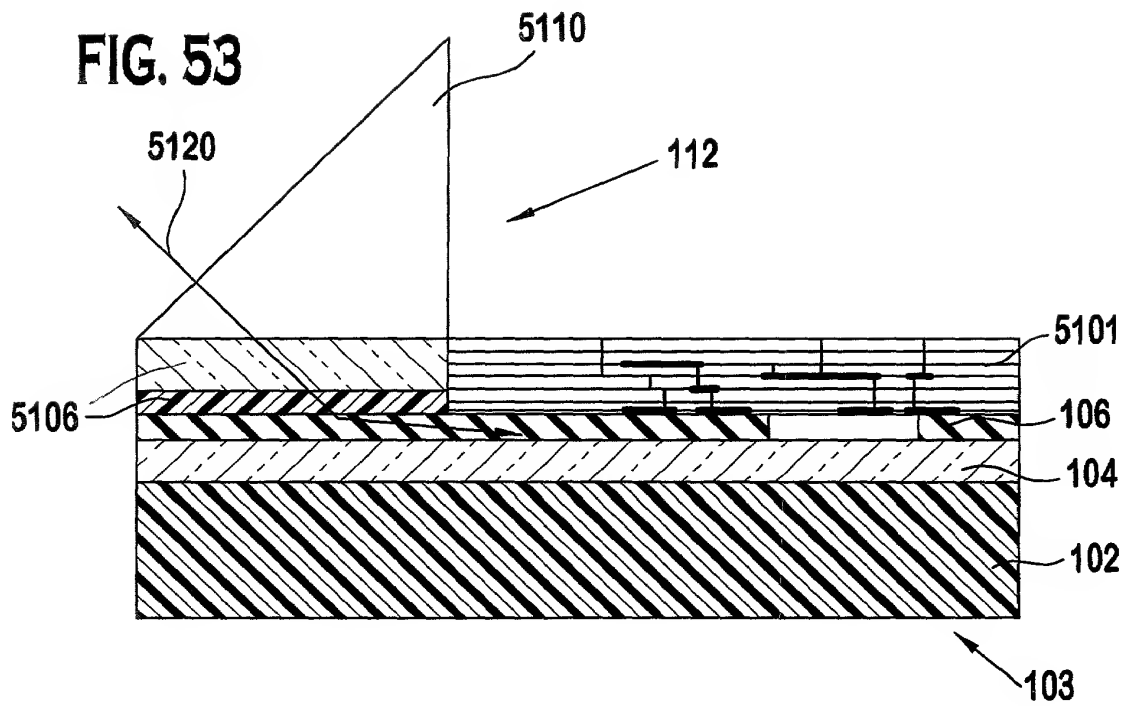


FIG. 54

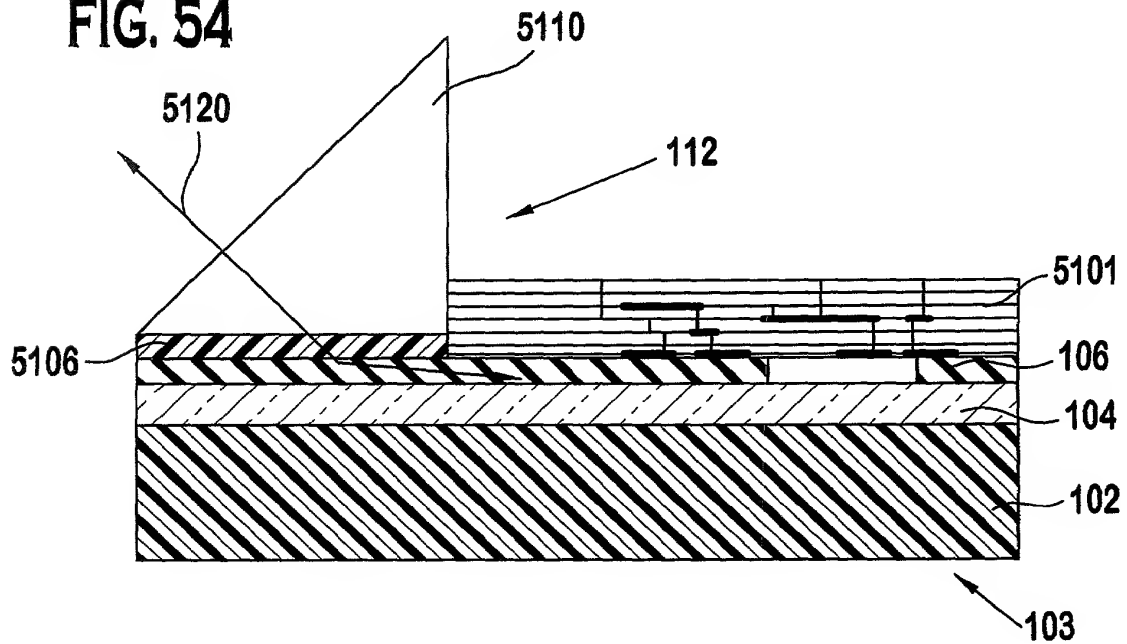


FIG. 55

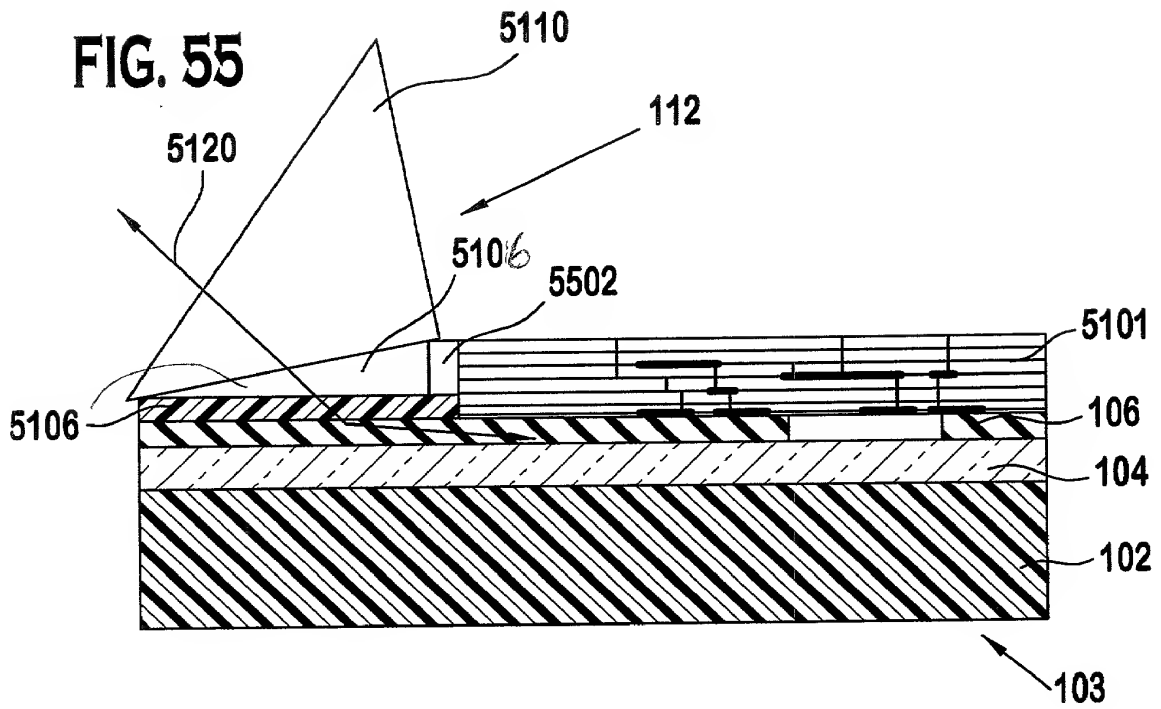


FIG. 56

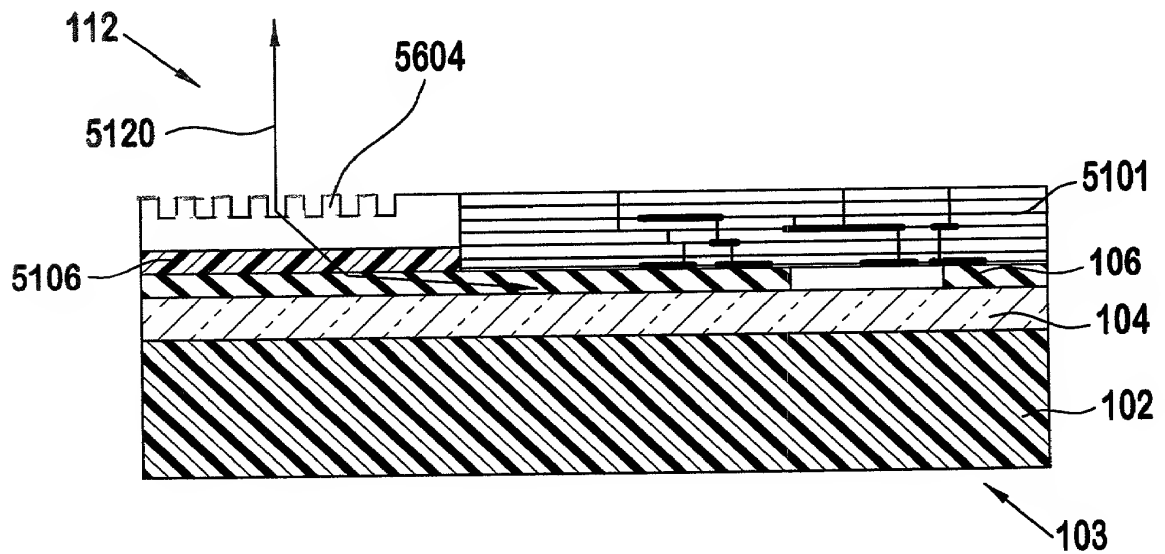


FIG. 57

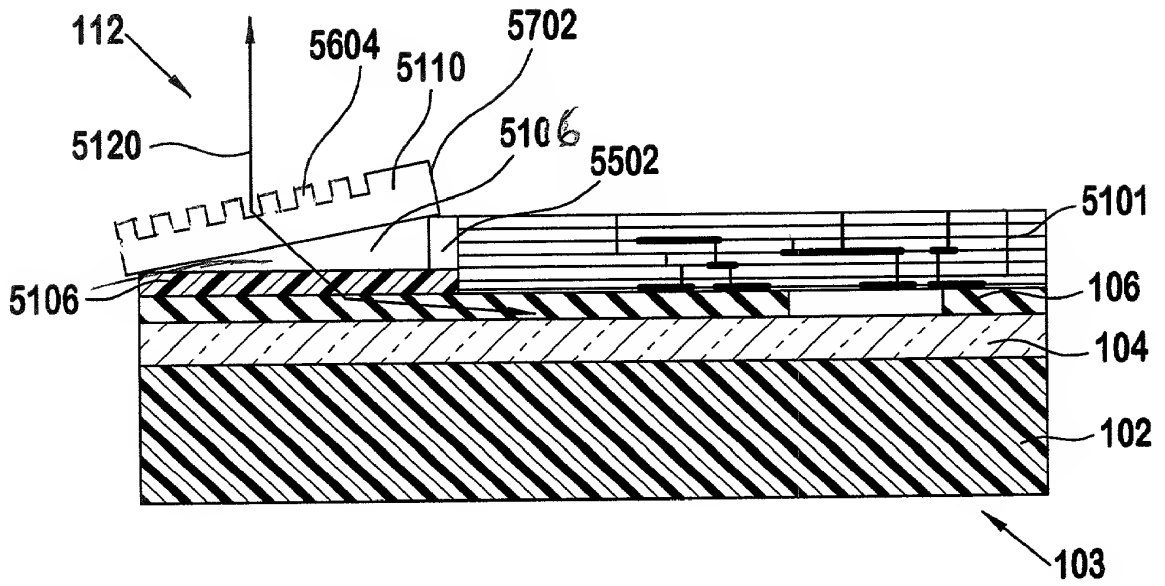
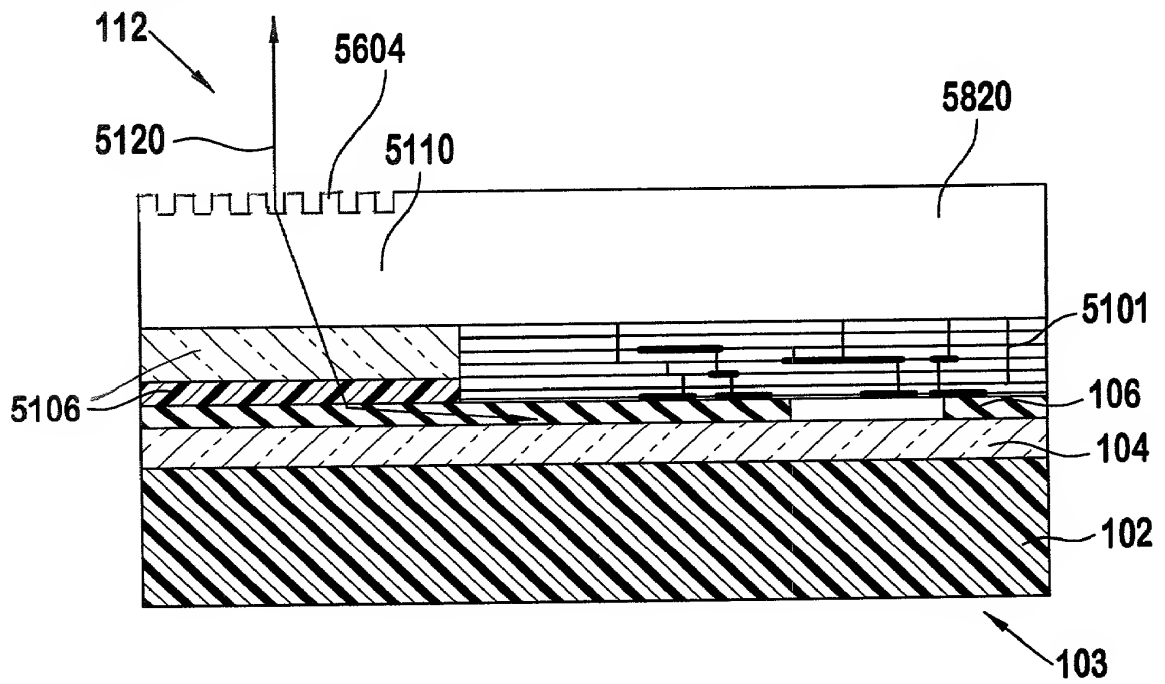


FIG. 58



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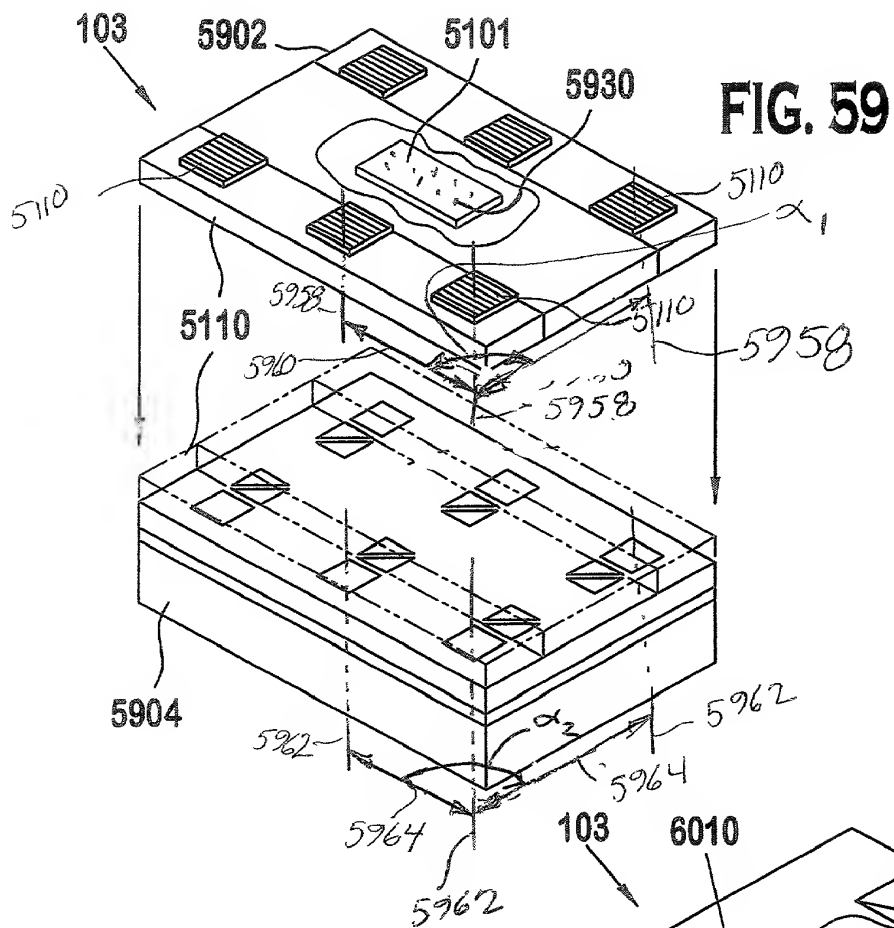


FIG. 59

FIG. 60

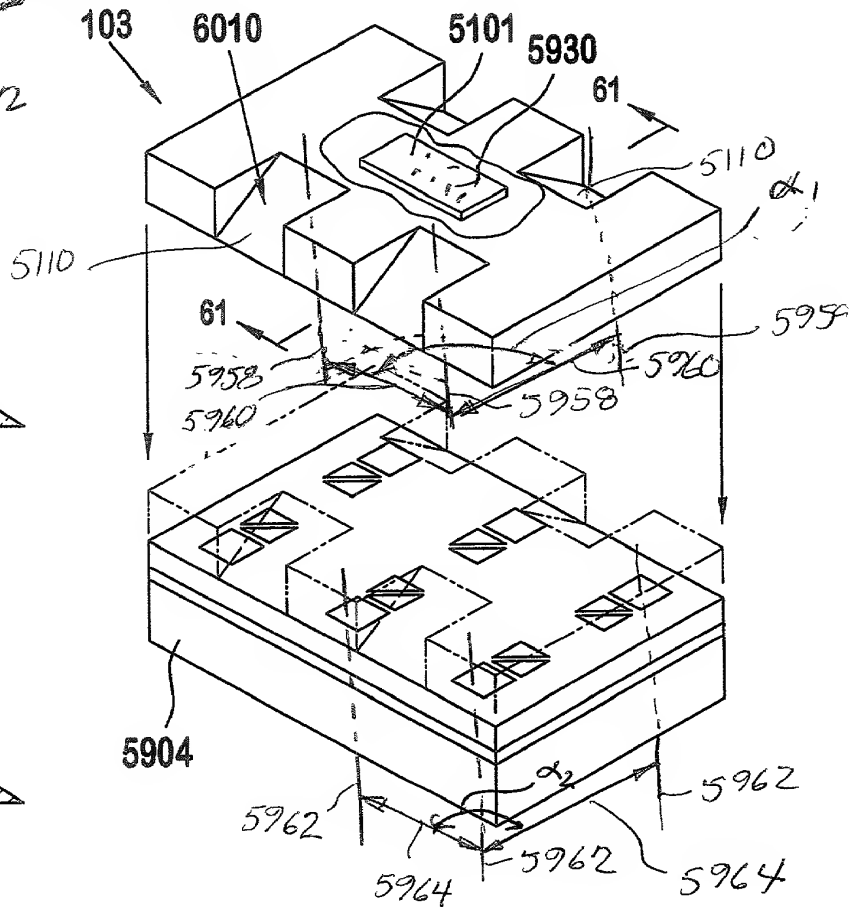


FIG. 61

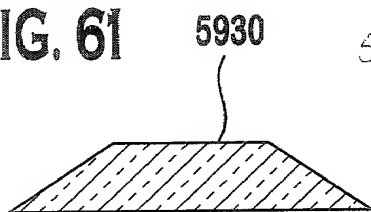
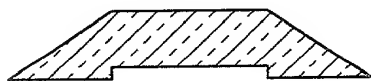


FIG. 62



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FIG. 63A

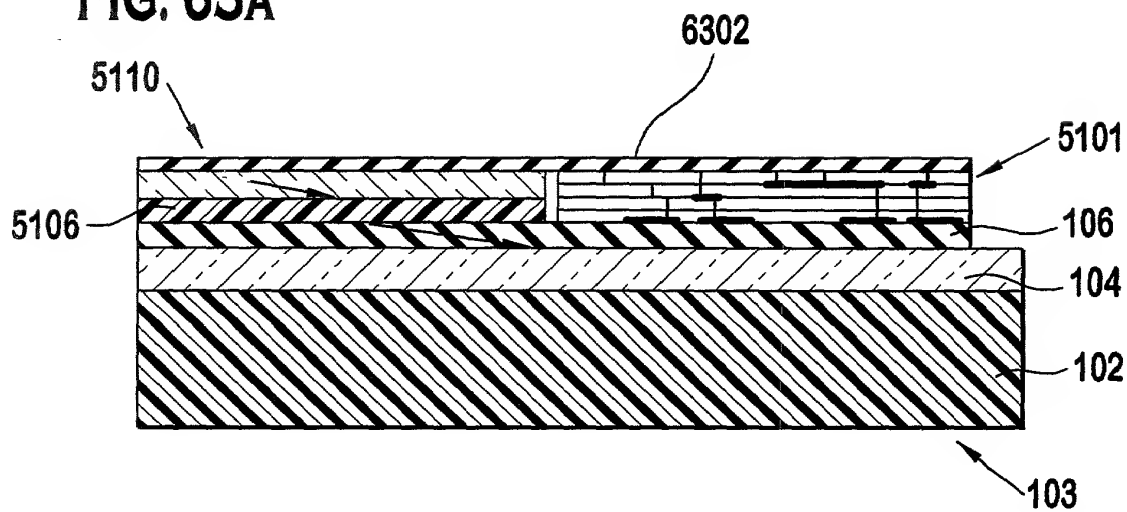


FIG. 63B

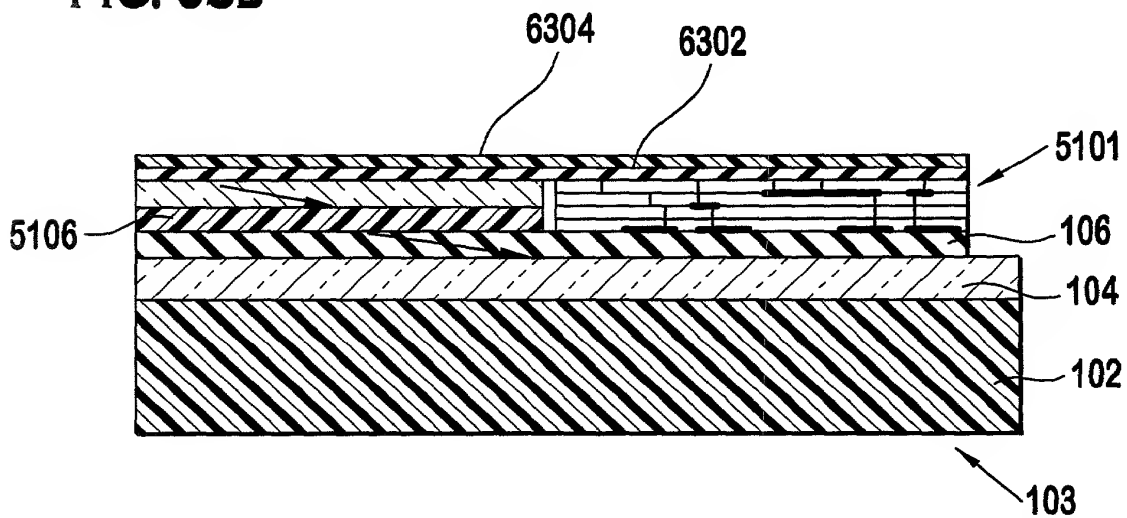


FIG. 63C

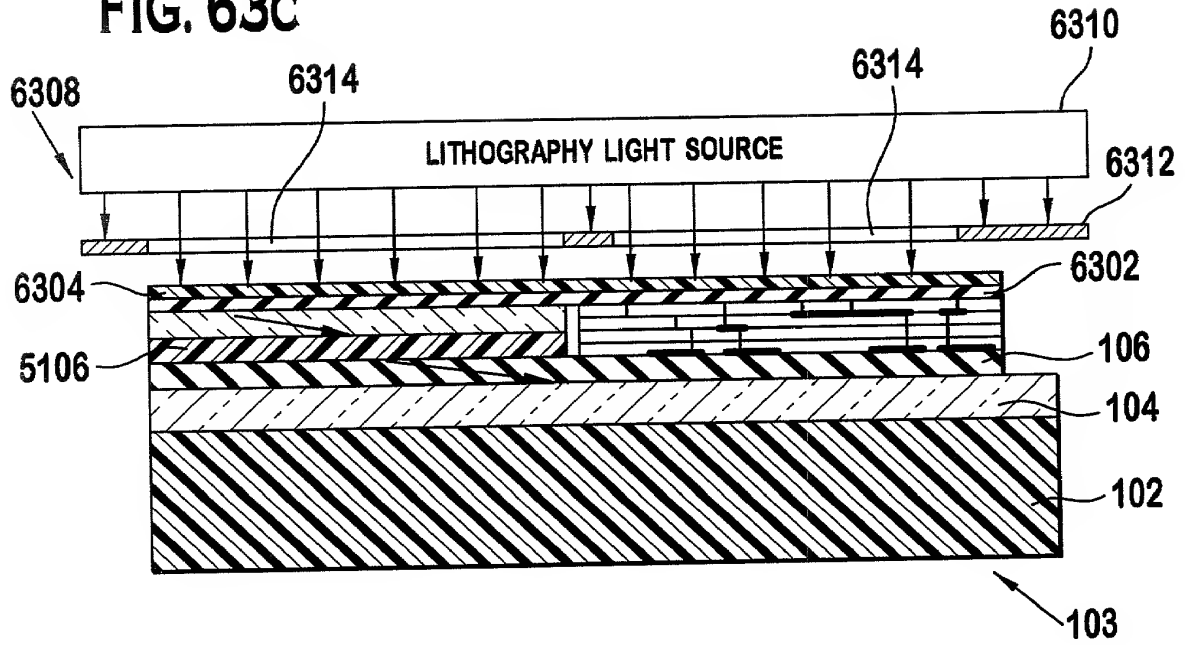
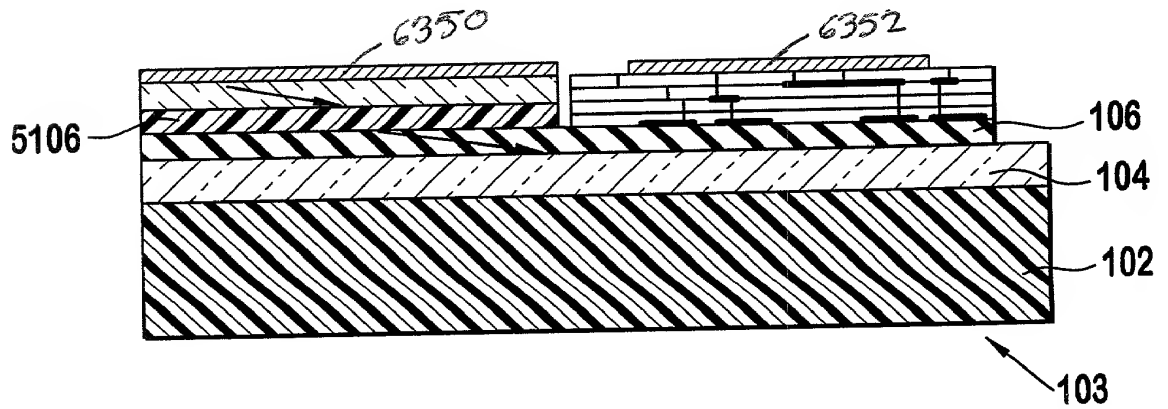


FIG. 63D



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FIG. 64

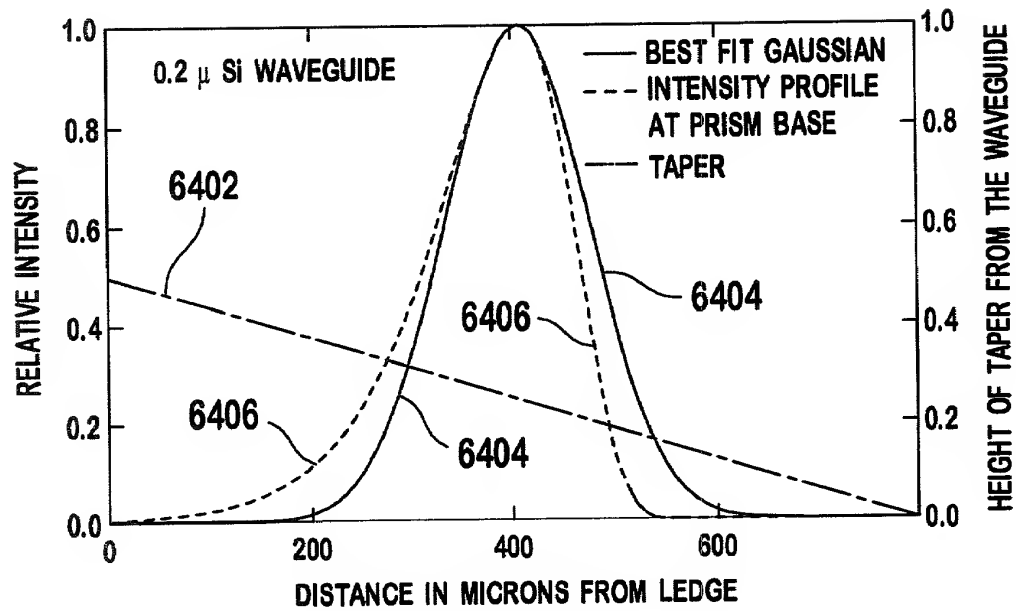
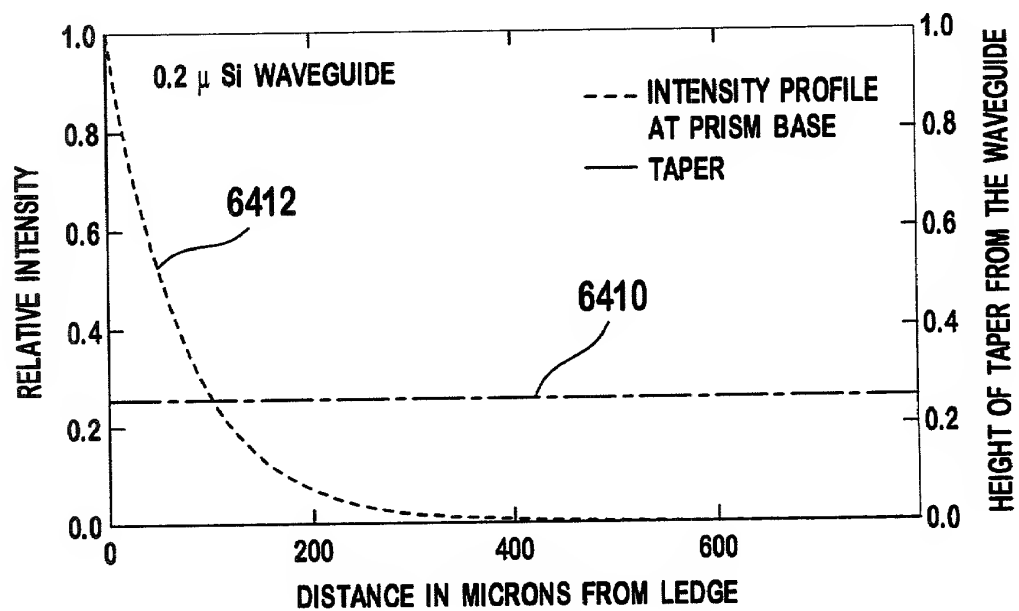


FIG. 65



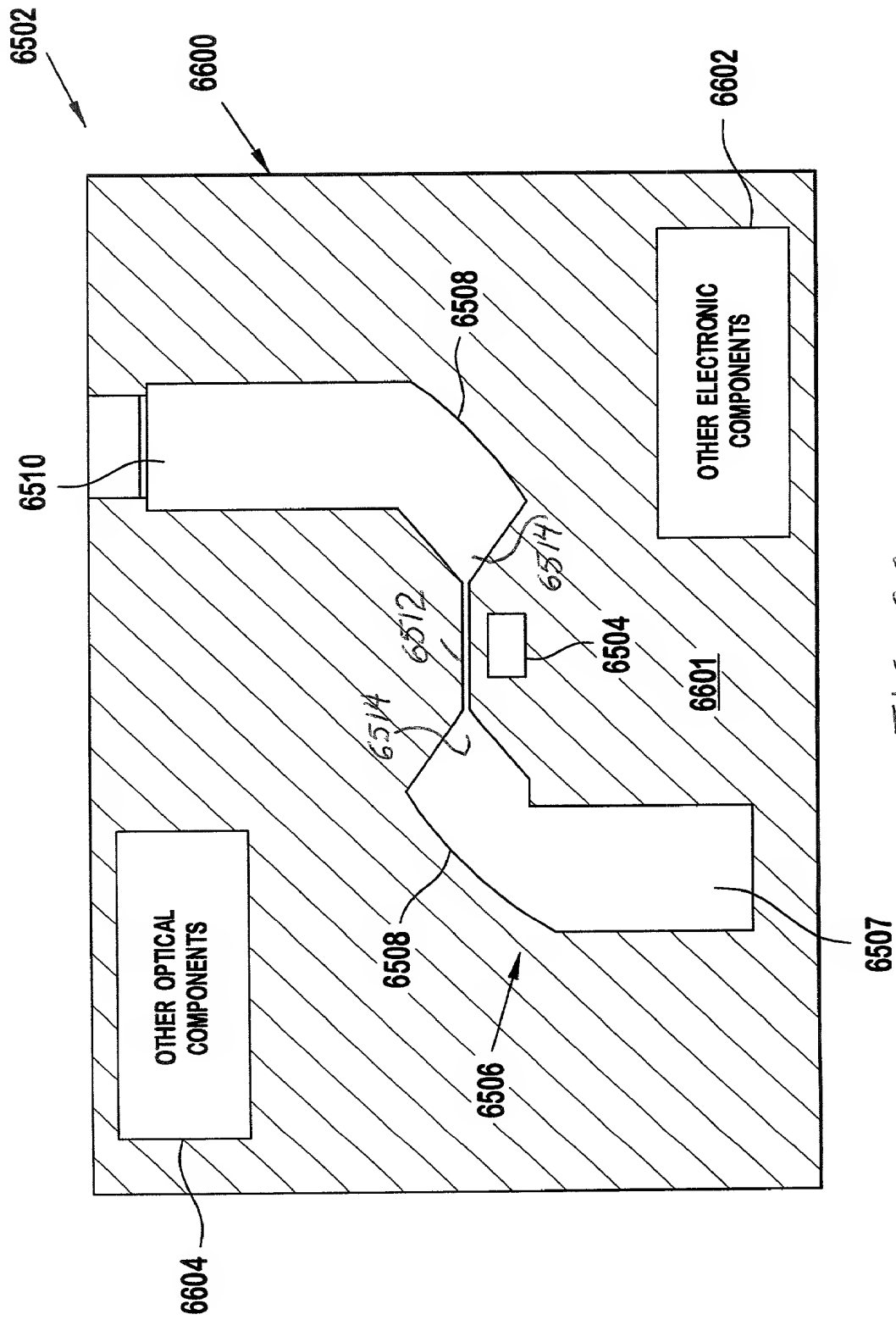


FIG. 66

FIG. 67

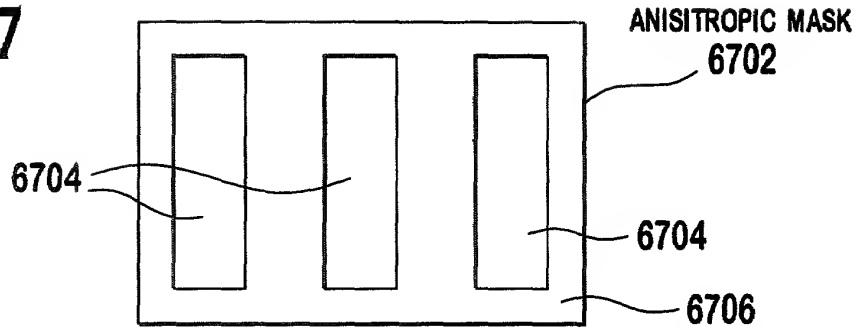


FIG. 68A



FIG. 68B

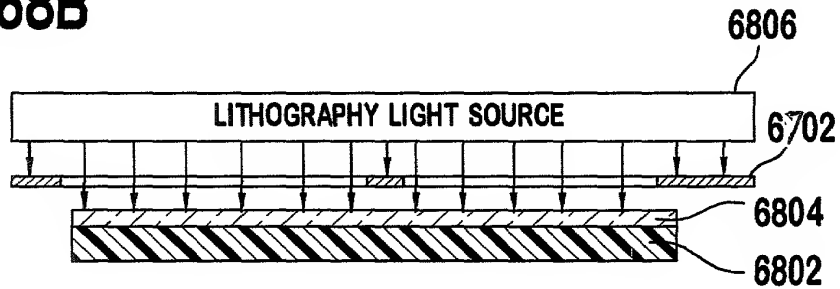
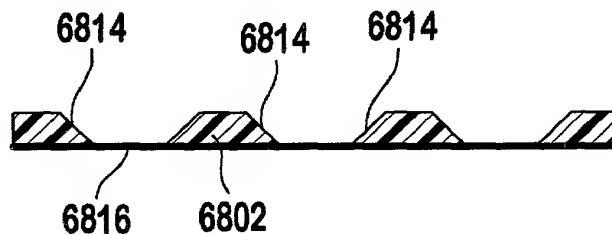


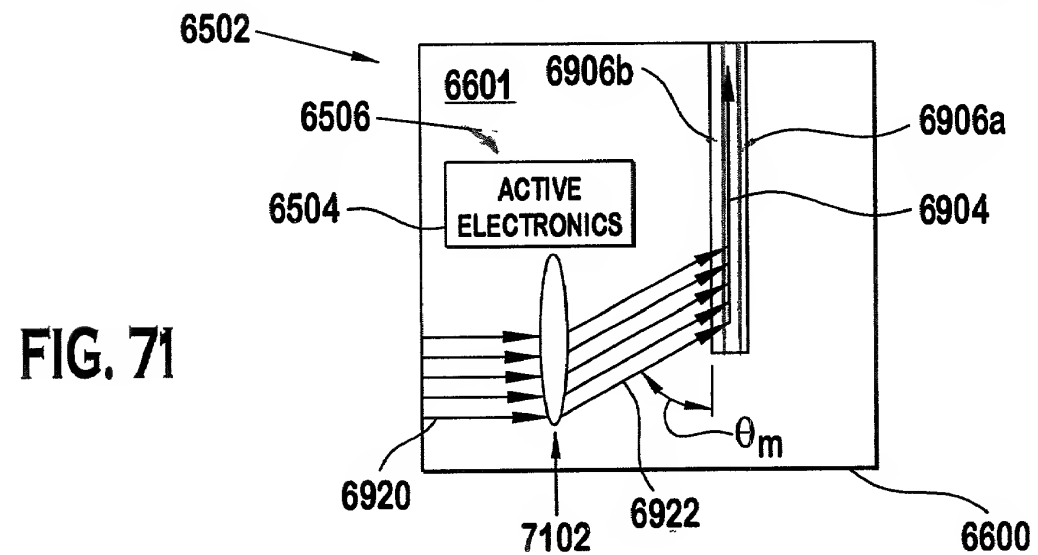
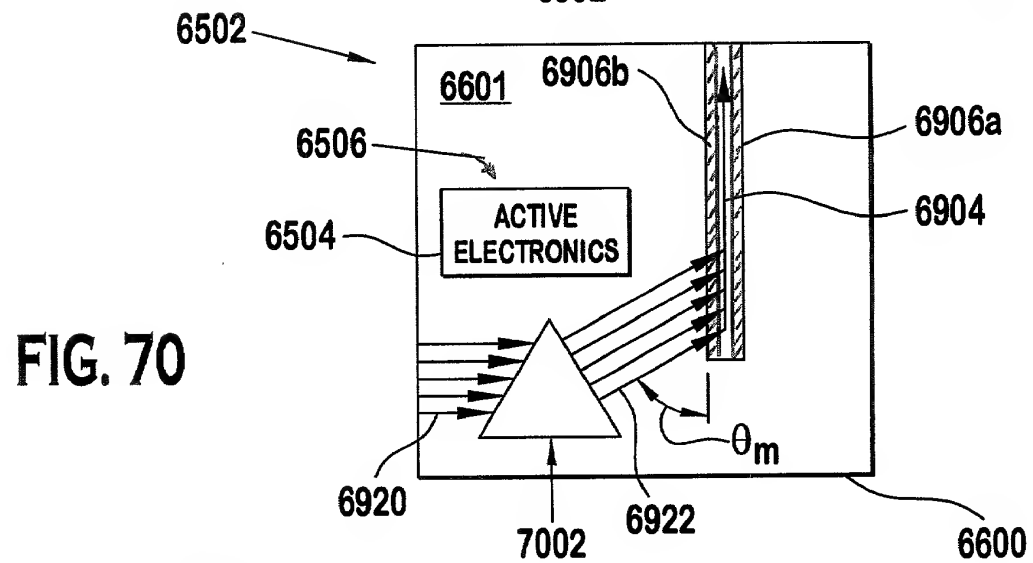
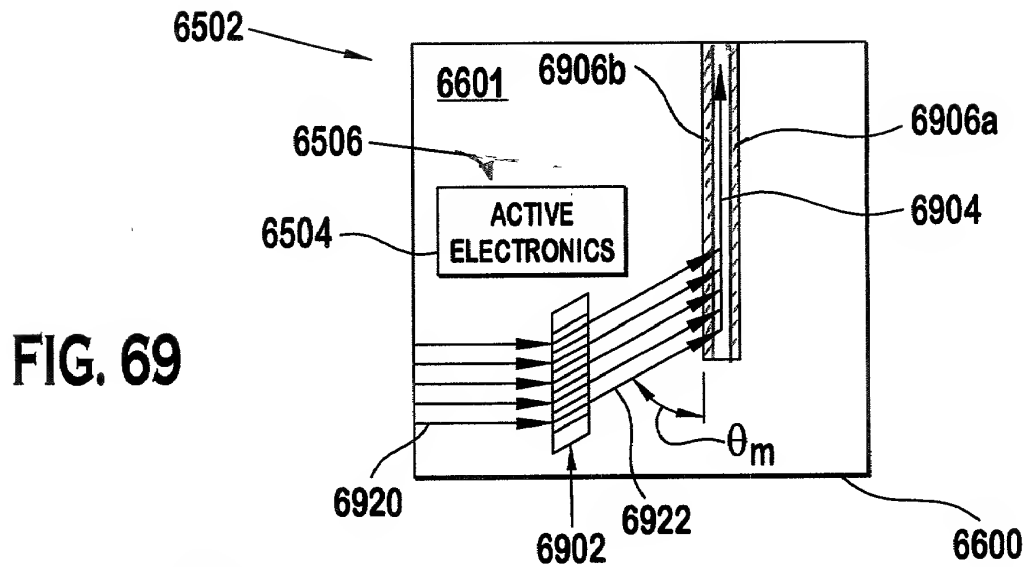
FIG. 68C



FIG. 68D



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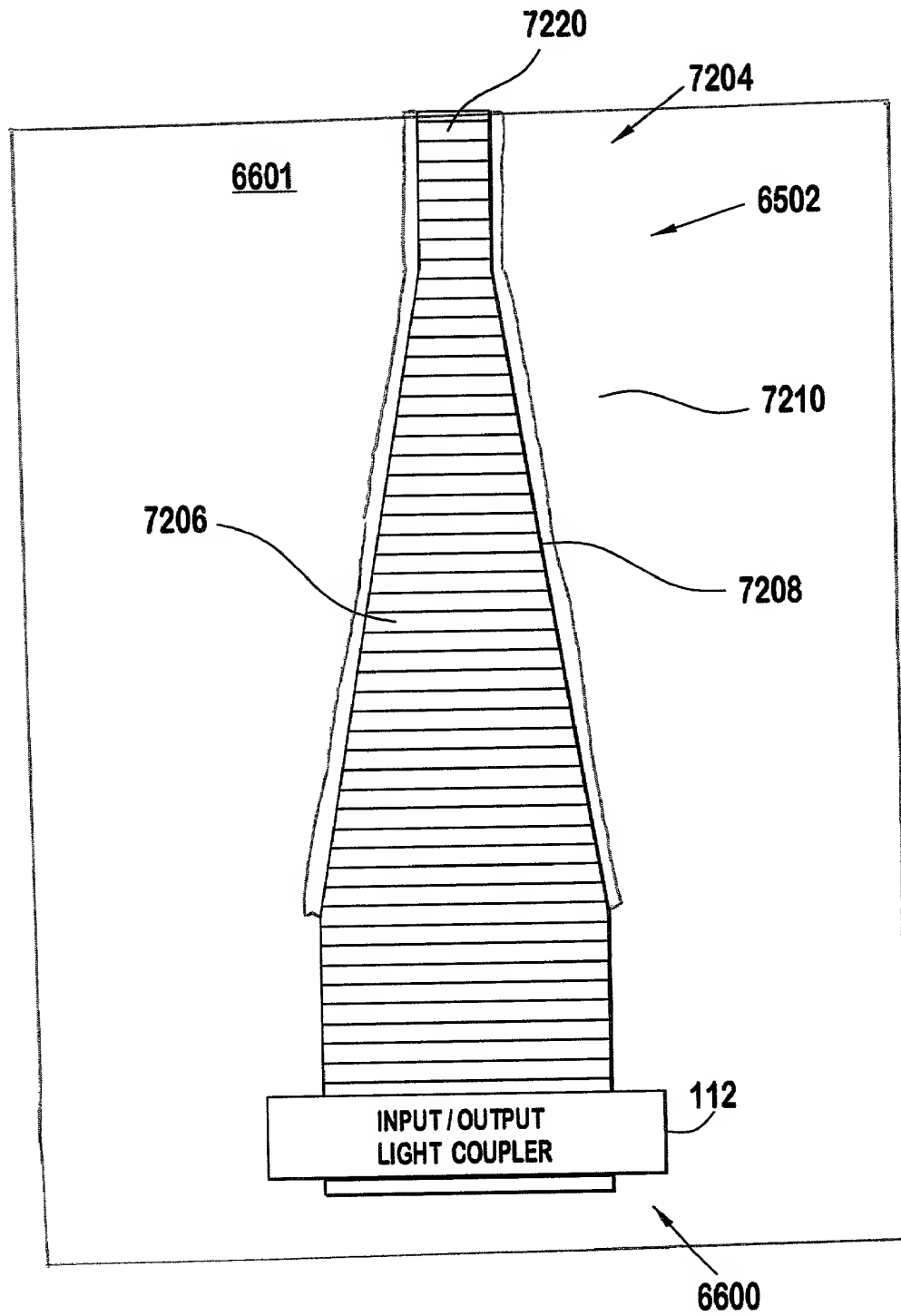


FIG. 72

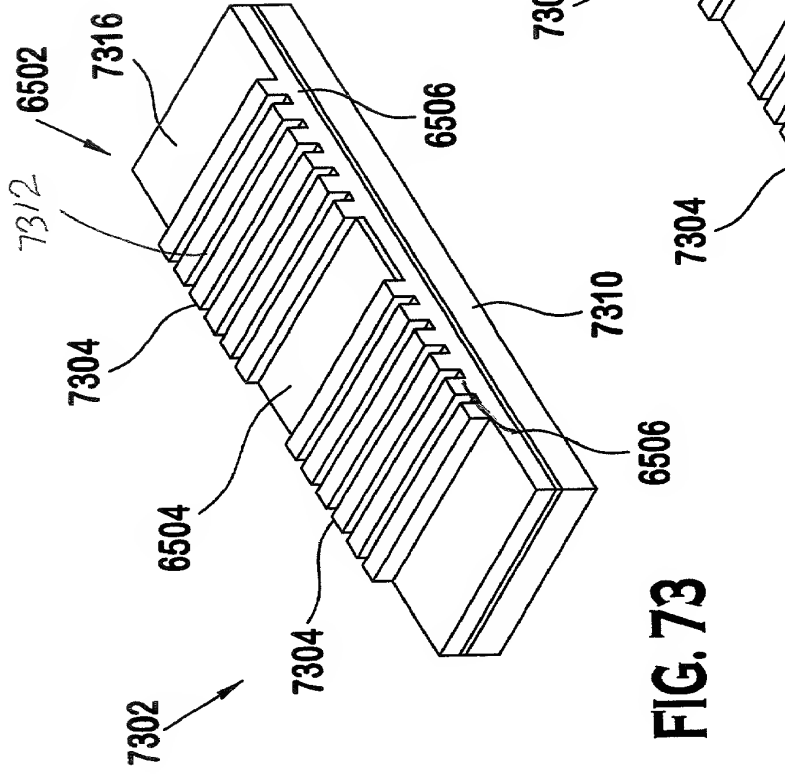


FIG. 73

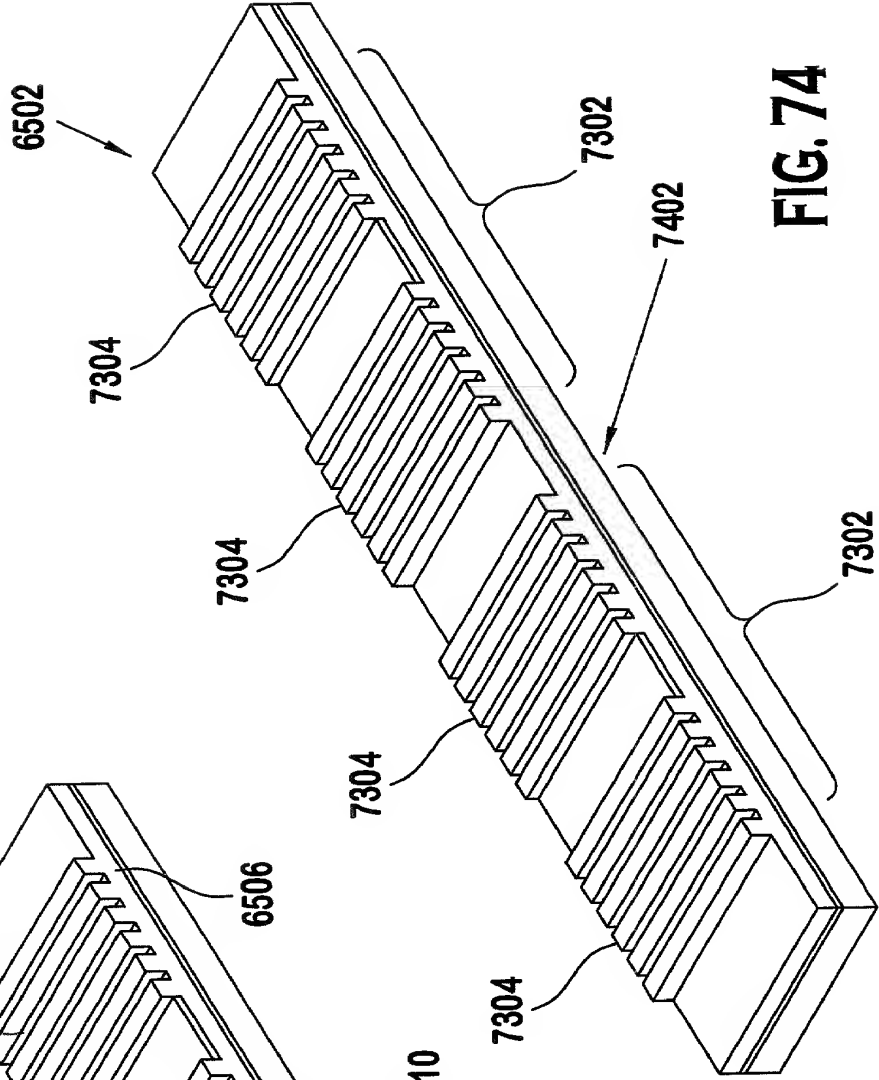


FIG. 74

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FIG. 75

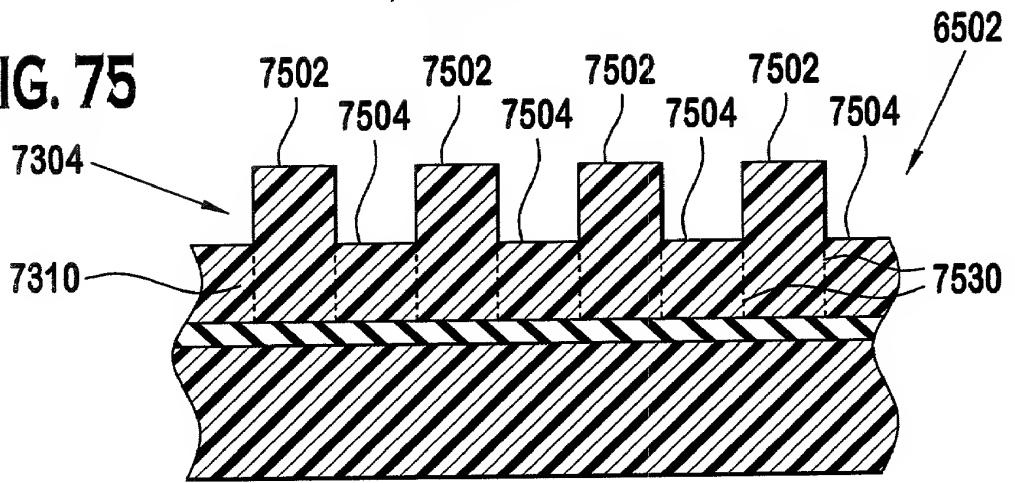


FIG. 76

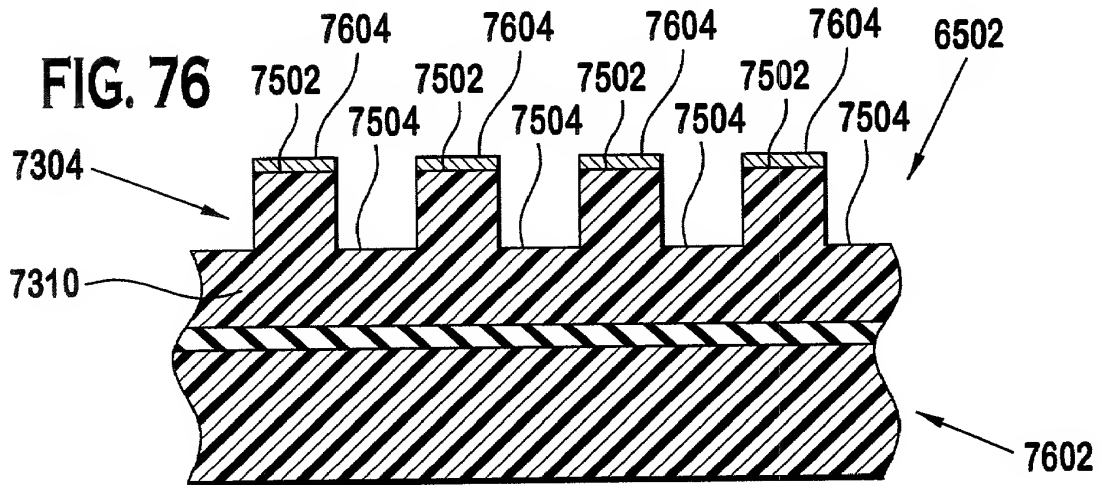
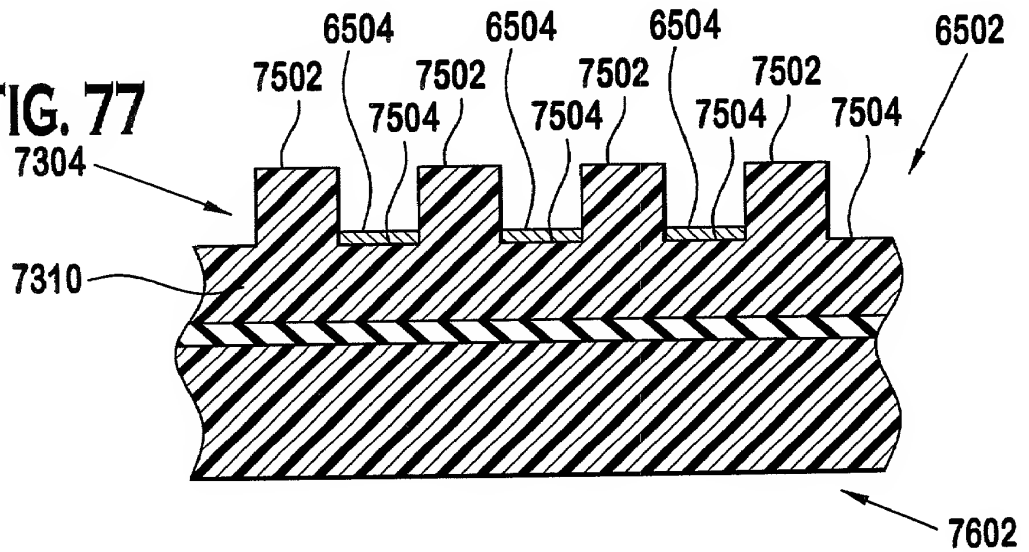


FIG. 77



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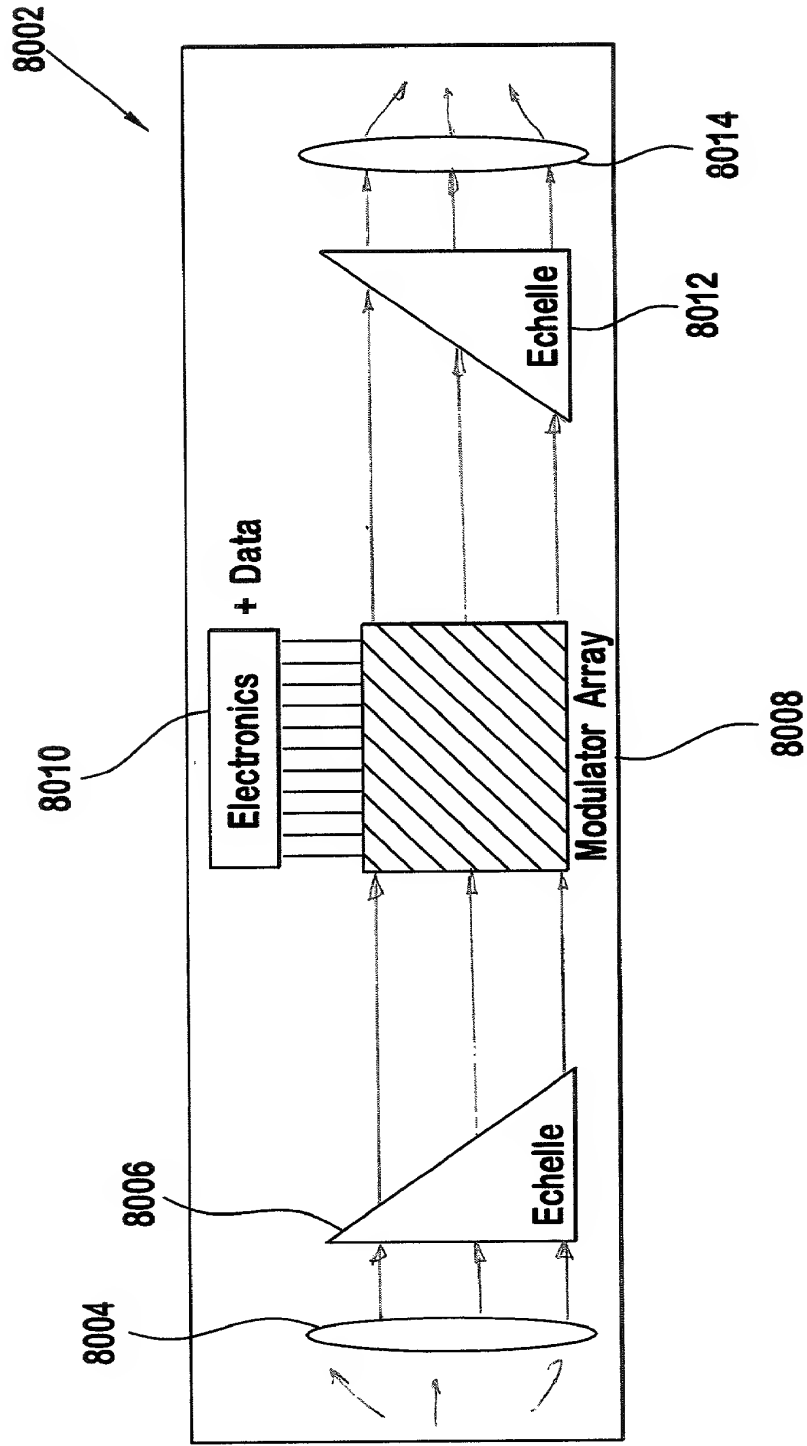


FIG. 80

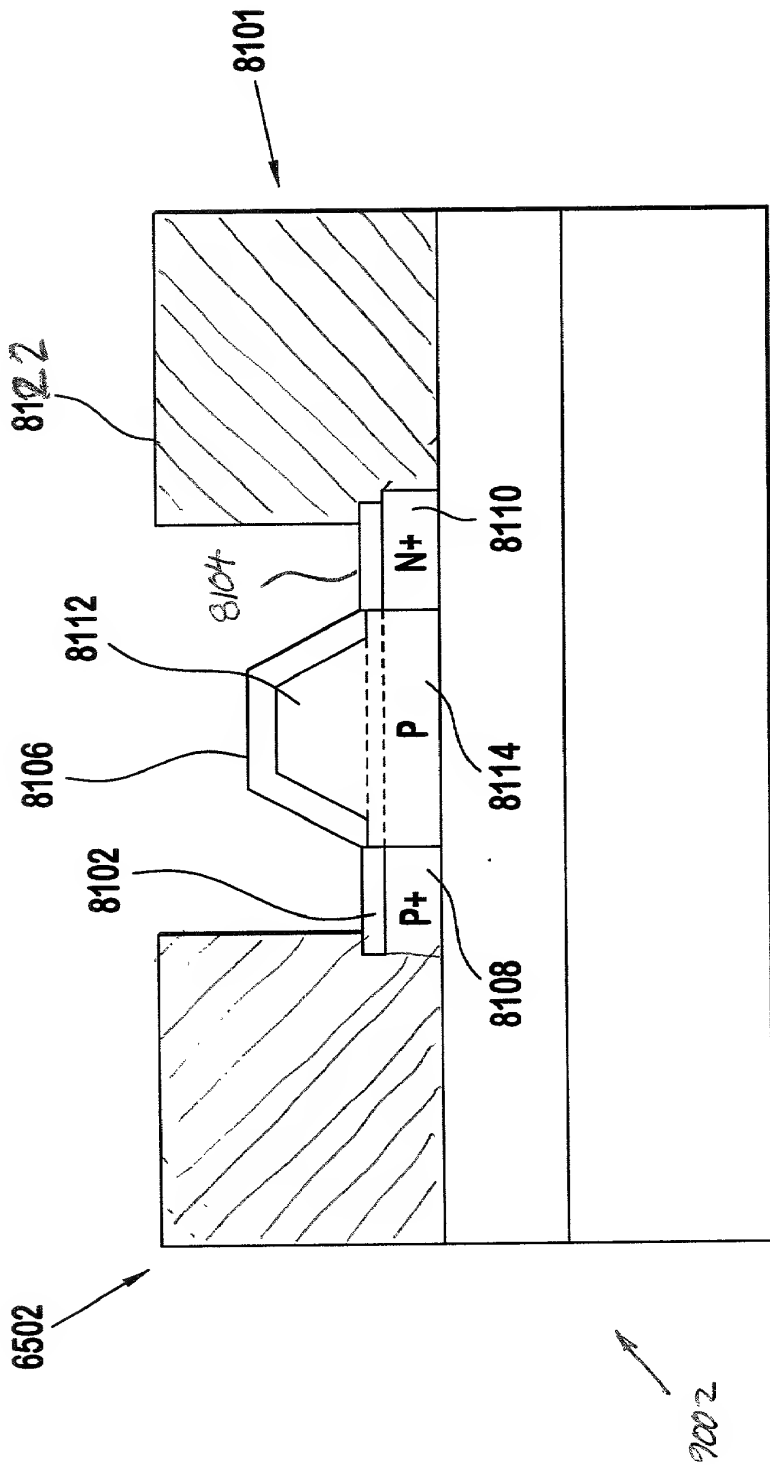
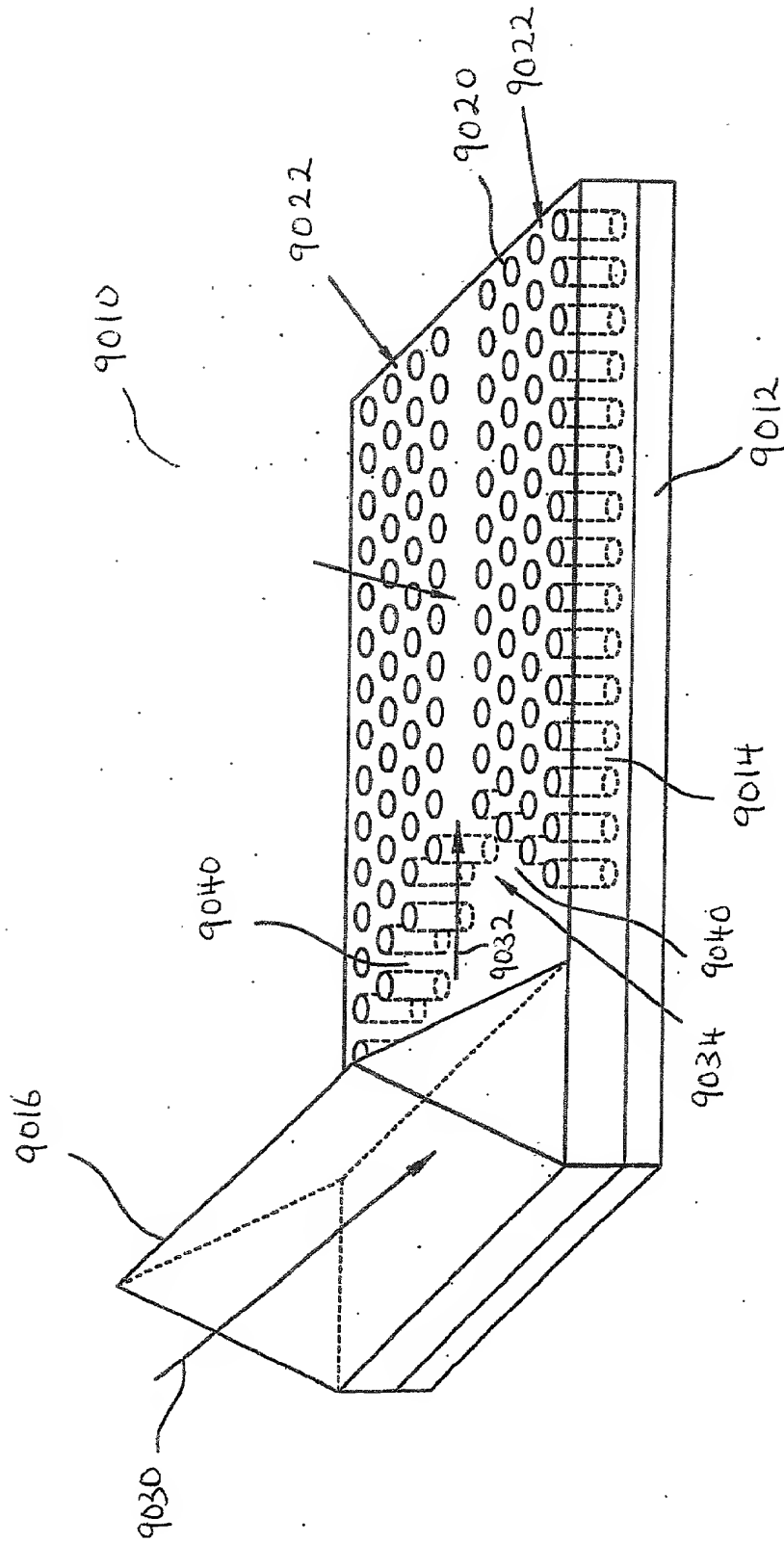


FIG. 81

FIG. 82



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FIG. 84

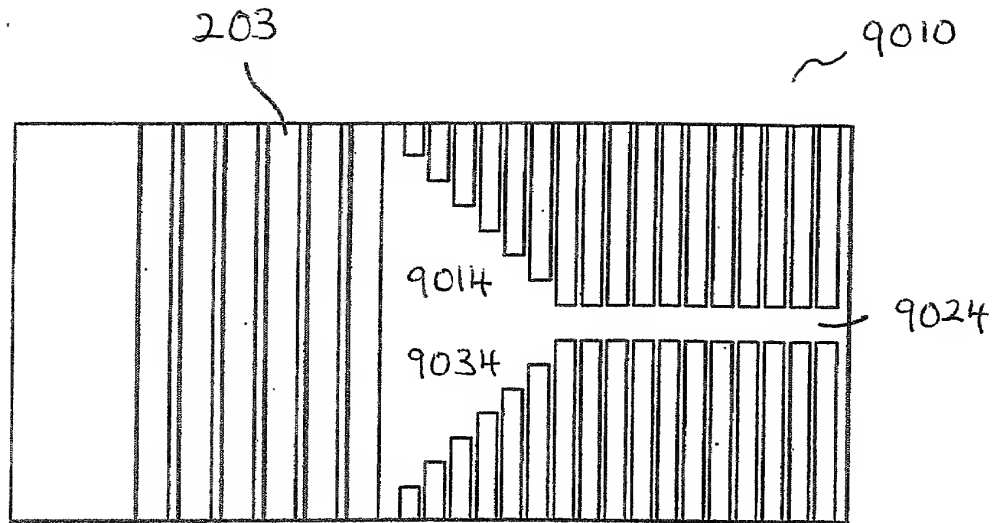


FIG. 85

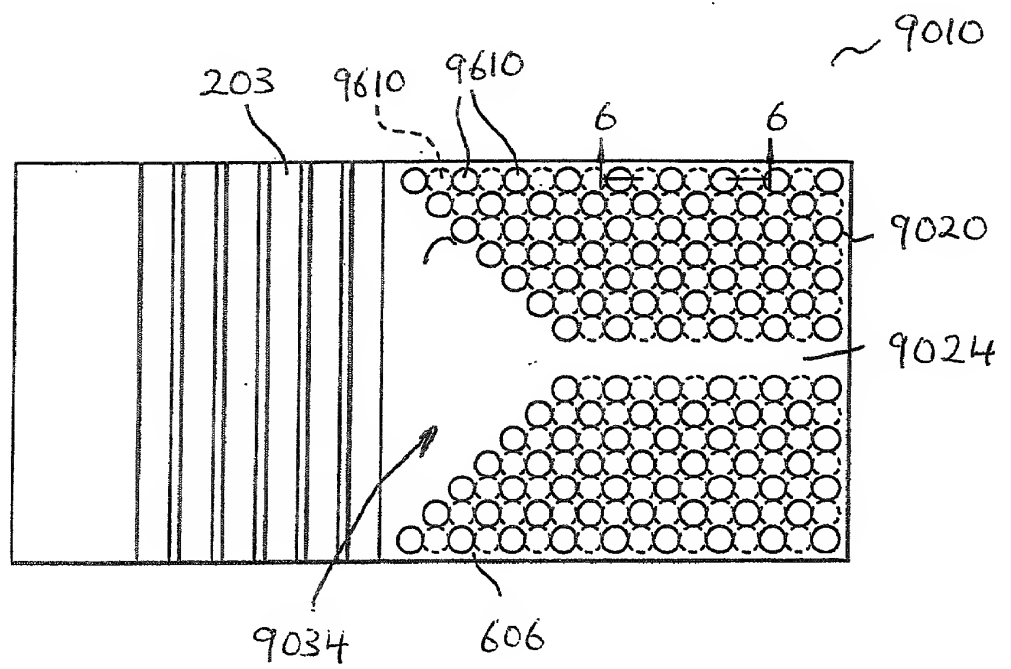


FIG. 86

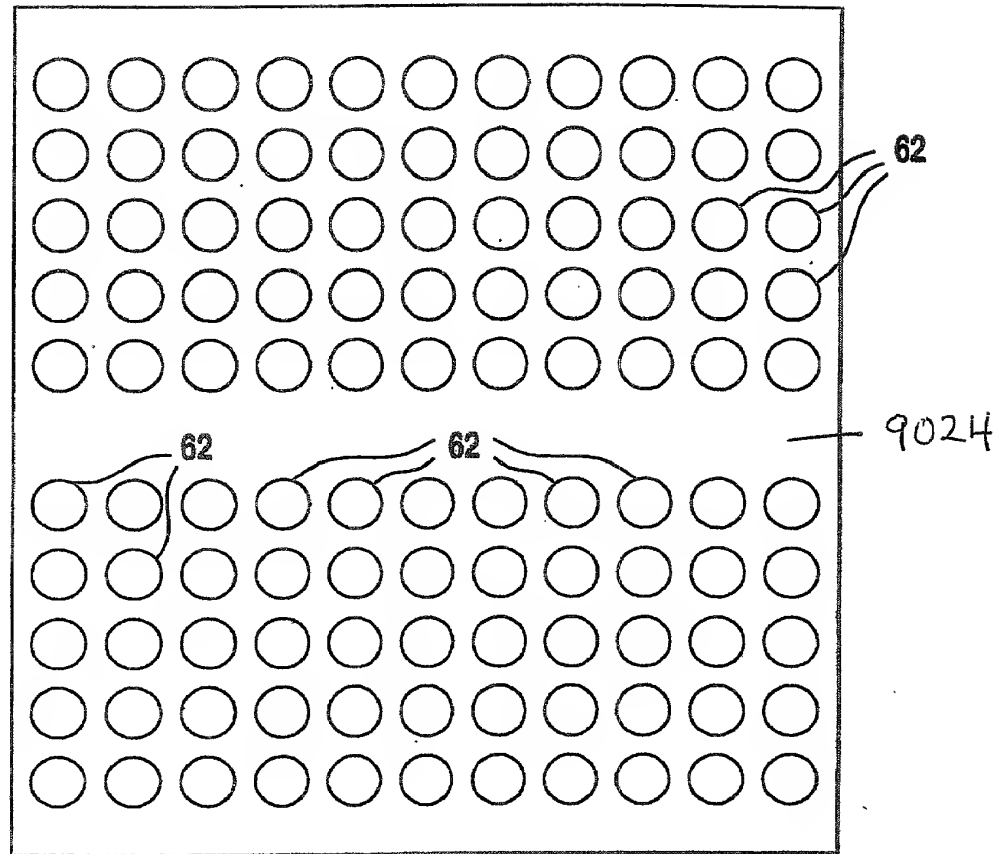


FIG. 87

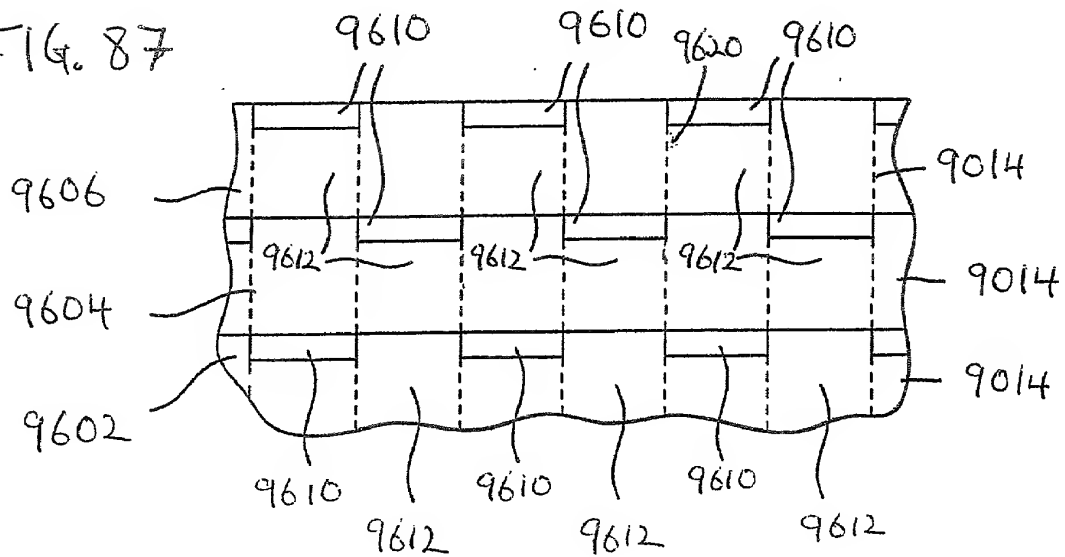
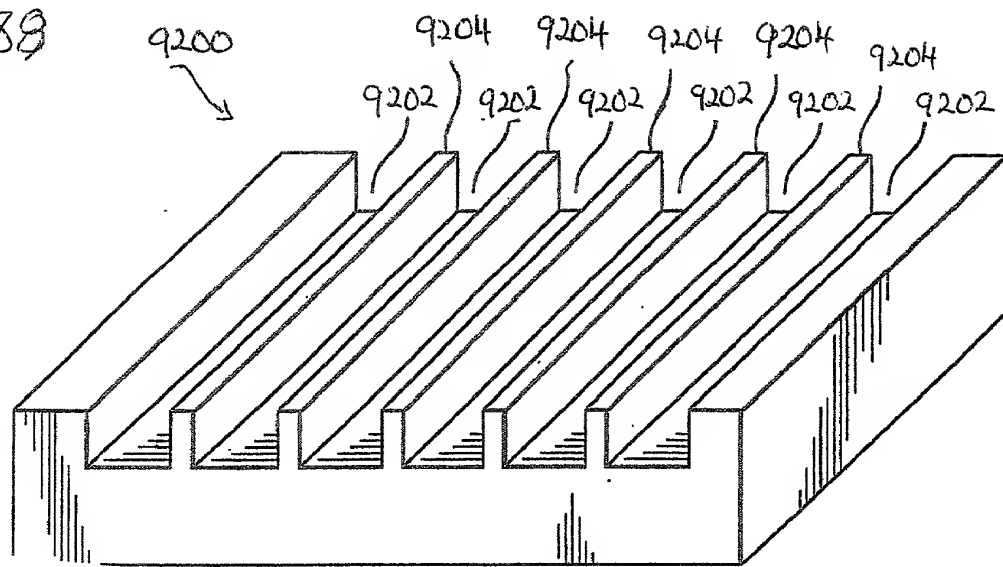


FIG. 88



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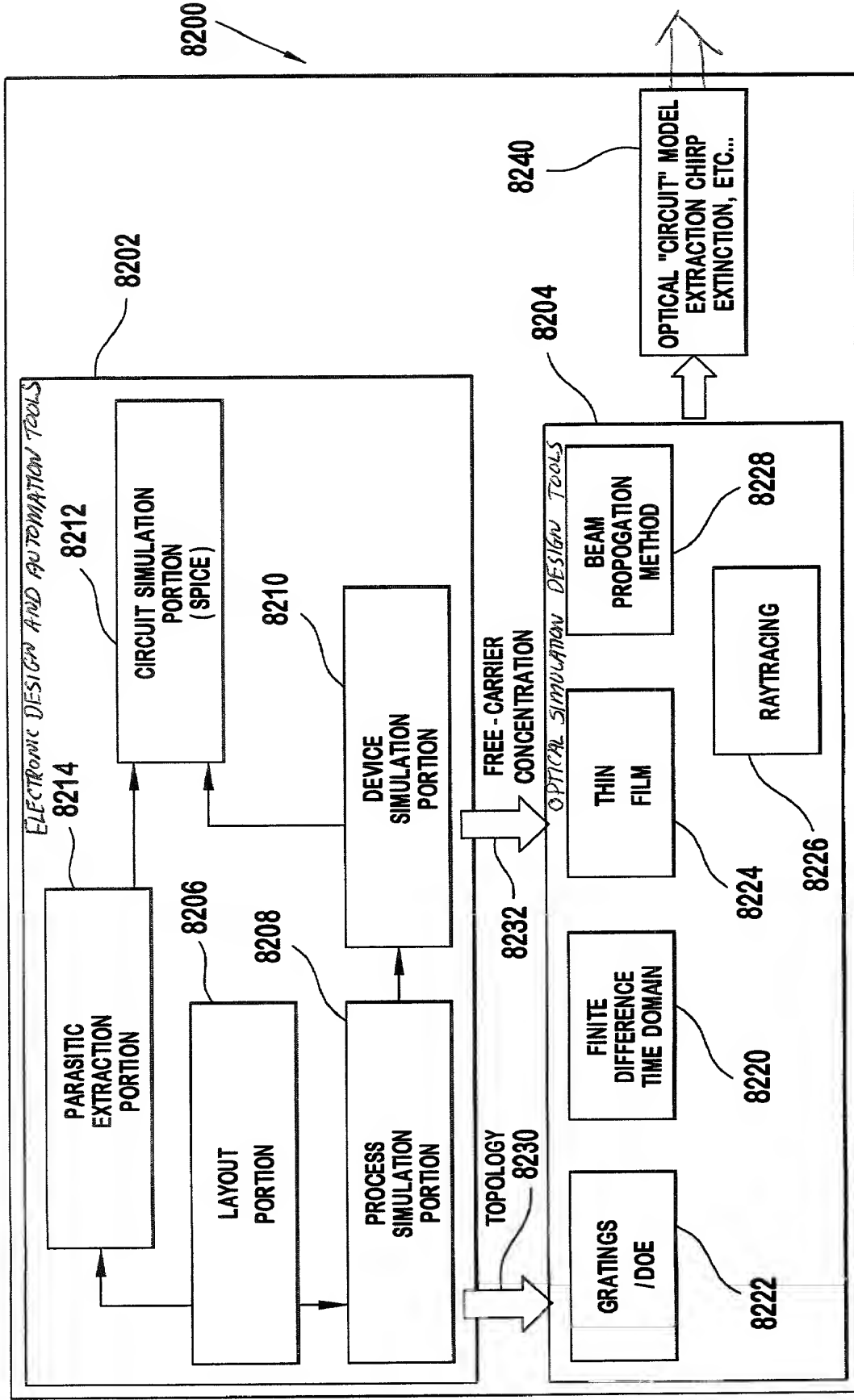


FIG. 8,9

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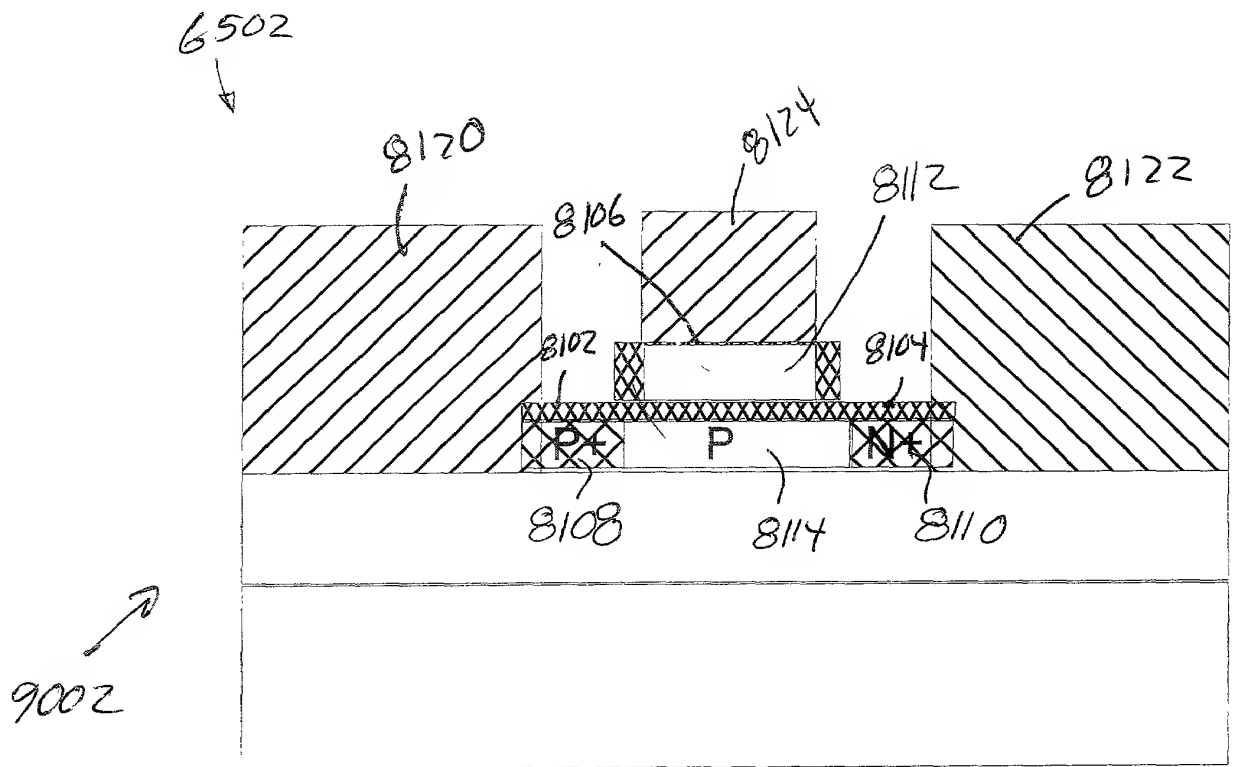


FIG. 90

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6502
↓

9002
↗

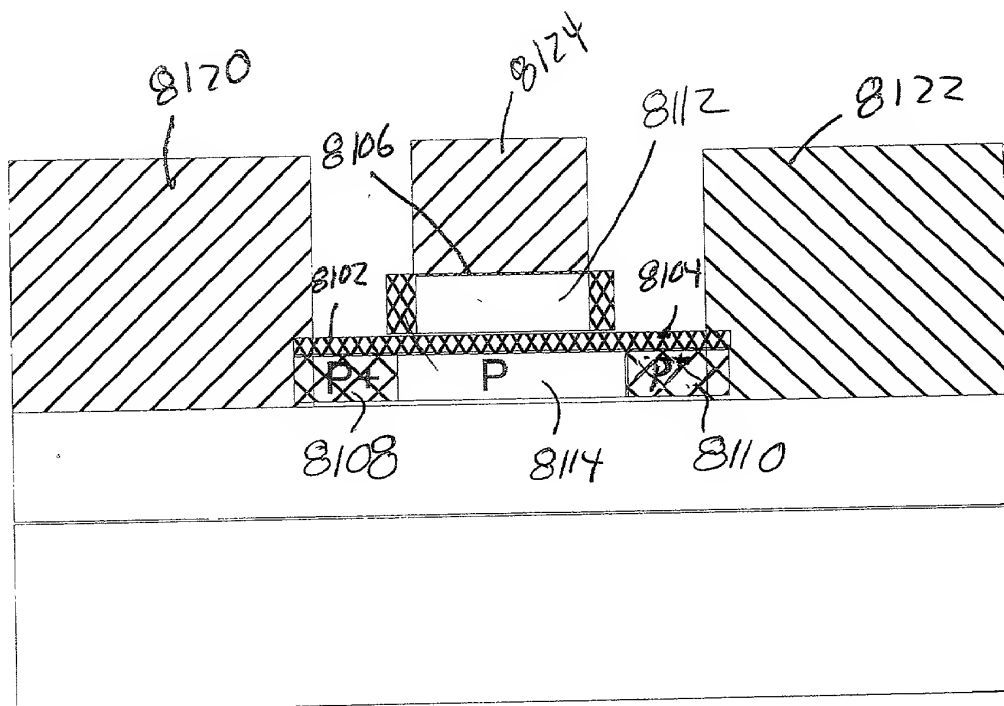


FIG. 91